Federal Aviation Administration

U.S. Terminal Procedures Publication

South Central (SC) Vol 3 of 5

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to: 0901Z

22 APR 2021

Consult the Change Notice (CN) effective 25 MAR 2021 for revised Instrument Procedure Charts for this volume

Consult NOTAMs for latest information

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CORRECTIONS, COMMENTS AND/OR PROCUREMENT

FOR CHARTING ERRORS, OR FOR CHANGES, ADDITIONS, RECOMMENDATIONS ON PROCEDURAL ASPECTS CONTACT:
FAA, Aeronautical Information Services
1305 East-West Highway
SSMC 4, Room 3424
Silver Spring, MD 20910
Telephone: 1-800-638-8972
https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/

For inquiries regarding military charts, please contact aerohelp@nga.mil

FOR PROCUREMENT:
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For a list of approved FAA Print Providers, visit our website at:
https://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/

Frequently asked questions (FAQ) are answered on our website at https://www.faa.gov/go/ais
See the FAQs prior to contact via toll free number or email.

Request for the creation or revisions to Airport Diagrams should be in accordance with FAA Order 7910.4.

INOP COMPONENTS 19339

INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE
(For Civil Use Only)

Straight-in and Sidestep landing minimums published on instrument approach procedure charts are based on full operation of all components and visual aids (see exception below for ALSF 1 & 2) associated with the particular approach chart being used. Higher minimums are required with inoperative components or visual aids as indicated below. If more than one component is inoperative, each minimum is raised to the highest minimum required by any single component that is inoperative. ILS glideslope inoperative minimums are published on the instrument approach charts as localizer minimums. This table applies to approach categories A thru D and is to be used unless amended by notes on the approach chart. Such notes apply only to the particular approach category(ies) as stated. Category E inoperative notes will be specified when published on civil charts. The inoperative table does not apply to Circling minimums. See legend page for description of components indicated below.

Full Operation Exception: For ALSF 1 & 2 operated as SSALR, or when the sequenced flashing lights are inoperative, there is no effect on visibility for ILS lines of minima.

(1) ILS, PAR, LPV, GLS minima

Inoperative Component or Visual Aid	Increase Visibility
All ALS types (except ODALS)	¼ mile

(2) ILS, LPV, GLS with visibility minima of RVR 1800†/2000*/2200*

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	To RVR 4000† To RVR 4500*
TDZL or RCLS	To RVR 2400#
RVR	To ½ mile

#For ILS, LPV, GLS procedures with a 200 foot HAT, RVR 1800 authorized with use of FD or AP or HUD to DA.

(3) All Approach Types and all lines of minima other than (1) & (2) above

Inoperative Component or Visual Aid	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile
MALSF, MALS, SSALF, SSALS, SALSF, SALS	¼ mile

(4) Sidestep minima (CAT C-D)

Inoperative Component or Visual Aid to Sidestep Runway	Increase Visibility
ALSF 1 & 2, MALSR, SSALR	½ mile

(5) All Approach Types, All lines of minima

Inoperative Component or Visual Aid	Increase Visibility
ODALS (CAT A-B)	¼ mile
ODALS (CAT C-D)	⅛ mile

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TERMS/LANDING MINIMA DATA 20142

IFR LANDING MINIMA

The United States Standard for Terminal Instrument Procedures (TERPS) is the approved criteria for formulating instrument approach procedures. Landing minima are established for six aircraft approach categories (ABCDE and COPTER).
In the absence of COPTER MINIMA, helicopters may use the CAT A minimums of other procedures.

LANDING MINIMA FORMAT

In this example airport elevation is 1179, and runway touchdown zone elevation is 1152.

Visibility (RVR 100's of feet) — DA — Aircraft Approach Category — HAT

CATEGORY	A	B	C	D
S-ILS 27	1352/24		200 (200-½)	
S-LOC 27	1440/24	288	(300-½)	1440/50 288 (300-1)
CIRCLING	1540-1 361 (400-1)	1640-1 461 (500-1)	1640-1½ 461 (500-1½)	1740-2 561 (600-2)

Straight-in ILS to Runway 27

Straight-in with Glide Slope Inoperative or not used to Runway 27

All **weather** minimums in parentheses not applicable to Civil Pilots. Military Pilots refer to appropriate regulations.

MDA — HAA — Visibility in Statute Miles

COPTER MINIMA ONLY

CATEGORY	COPTER
H-176°	680-½ 363 (400-½)

Copter Approach Direction — Height of MDA/DA Above Landing Area (HAL) — No circling minimums are provided

NOTE: The W symbol indicates outages of the WAAS vertical guidance may occur daily at this location due to initial system limitations. WAAS NOTAMS for vertical outages are not provided for this approach. Use LNAV minima for flight planning at these locations, whether as a destination or alternate. For flight operations at these locations, when the WAAS avionics indicate that LNAV/VNAV or LPV service is available, then vertical guidance may be used to complete the approach using the displayed level of service. Should an outage occur during the procedure, reversion to LNAV minima may be required. As the WAAS coverage is expanded, the W will be removed.

RNAV minimums are dependent on navigation equipment capability, as stated in the applicable AFM, AFMS, or other FAA approved document. See AIM paragraph 5-4-5, AC 90-105 and AC 90-107 for detailed requirements for each line of minima.

COLD TEMPERATURE AIRPORTS

NOTE: A ❄-12°C symbol indicates a cold temperature altitude correction is required at this airport when reported temperature is at or below the published temperature. See the following Cold Temperature Error Table to make manual corrections. Advise ATC with altitude correction. Advising ATC with altitude corrections is not required in the final segment. See Aeronautical Information Manual (AIM), Chapter 7, for guidance and additional information. For a complete list, see the "Cold Temperature Airports" link under the Additional Resources heading at the bottom of the following page: http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/search/

COLD TEMPERATURE ERROR TABLE

HEIGHT ABOVE AIRPORT IN FEET

REPORTED TEMP °C	200	300	400	500	600	700	800	900	1000	1500	2000	3000	4000	5000
+10	10	10	10	10	20	20	20	20	20	30	40	60	80	90
0	20	20	30	30	40	40	50	50	60	90	120	170	230	280
-10	20	30	40	50	60	70	80	90	100	150	200	290	390	490
-20	30	50	60	70	90	100	120	130	140	210	280	420	570	710
-30	40	60	80	100	120	140	150	170	190	280	380	570	760	950
-40	50	80	100	120	150	170	190	220	240	360	480	720	970	1210
-50	60	90	120	150	180	210	240	270	300	450	590	890	1190	1500

AIRCRAFT APPROACH CATEGORIES

Aircraft approach category indicates a grouping of aircraft based on a speed of VREF, if specified, or if VREF not specified, 1.3 VSO at the maximum certificated landing weight. VREF, VSO, and the maximum certificated landing weight are those values as established for the aircraft by the certification authority of the country of registry. Helicopters are Category A aircraft. An aircraft shall fit in only one category. When necessary to operate the aircraft at an airspeed in excess of the maximum airspeed of its certified aircraft approach category, pilots should use the applicable higher category minima. For additional options and to ensure the aircraft remains within protected airspace, consult the AIM. See following category limits:

MANEUVERING TABLE

Approach Category	A	B	C	D	E
Speed (Knots)	0-90	91-120	121-140	141-165	Abv 165

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CIRCLING APPROACH OBSTACLE PROTECTED AIRSPACE

The circling MDA provides vertical obstacle clearance during a circle-to-land maneuver. The circling MDA protected area extends from the threshold of each runway authorized for landing following a circle-to-land maneuver for a distance as shown in the tables below. The resultant arcs are then connected tangentially to define the protected area.

STANDARD CIRCLING APPROACH MANEUVERING RADIUS

Circling approach protected areas developed prior to late 2012 used the radius distances shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category. The approaches using standard circling approach areas can be identified by the absence of the C symbol on the circling line of minima.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
All Altitudes	1.3	1.5	1.7	2.3	4.5

C EXPANDED CIRCLING APPROACH MANEUVERING AIRSPACE RADIUS

Circling approach protected areas developed after late 2012 use the radius distance shown in the following table, expressed in nautical miles (NM), dependent on aircraft approach category, and the altitude of the circling MDA, which accounts for true airspeed increase with altitude. The approaches using expanded circling approach areas can be identified by the presence of the C symbol on the circling line of minima.

Circling MDA in feet MSL	Approach Category and Circling Radius (NM)				
	CAT A	CAT B	CAT C	CAT D	CAT E
1000 or less	1.3	1.7	2.7	3.6	4.5
1001-3000	1.3	1.8	2.8	3.7	4.6
3001-5000	1.3	1.8	2.9	3.8	4.8
5001-7000	1.3	1.9	3.0	4.0	5.0
7001-9000	1.4	2.0	3.2	4.2	5.3
9001 and above	1.4	2.1	3.3	4.4	5.5

Comparable Values of RVR and Visibility

The following table shall be used for converting RVR to ground or flight visibility. For converting RVR values that fall between listed values, use the next higher RVR value; do not interpolate. For example, when converting 4800 RVR, use 5000 RVR with the resultant visibility of 1 mile.

RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)	RVR (feet)	Visibility (SM)
1600	¼	2400	½	3500	⅝	5500	1
1800	½	2600	½	4000	¾	6000	1¼
2000	½	3000	⅝	4500	⅞		
2200	½	3200	⅝	5000	1		

RADAR MINIMA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT HAA	CEIL-VIS
PAR	10	2.5°/42/1000	ABCDE	**195**/16	100	(100-¼)				
	28	2.5°/48/1068	ABCDE	**187**/16	100	(100-¼)				
ASR	10		ABC	**560**/40	463	(500-¾)	DE	**560**/50	463	(500-1)
	28		AB	**600**/50	513	(600-1)	CDE	**600**/60	513	(600-1¼)
CIR	10		AB	**560-**1¼	463	(500-1¼)	CDE	**560-**1½	463	(500-1½)
	28		AB	**600-**1¼	503	(600-1¼)	CDE	**600-**1½	503	(600-1½)

Visibility (RVR 100's of feet)

Visibility in Statute Miles

All minimums in parentheses not applicable to Civil Pilots. Military Pilots refer to appropriate regulations.

Radar Minima:

1. Minima shown are the lowest permitted by established criteria. Pilots should consult applicable directives for their category of aircraft.
2. The circling MDA and weather minima to be used are those for the runway to which the final approach is flown- not the landing runway. In the above RADAR MINIMA example, a category C aircraft flying a radar approach to runway 10, circling to land on runway 28, must use an MDA of 560 feet with weather minima of 500-1½.

NOTE: Military RADAR MINIMA may be shown with communications symbology that indicates emergency frequency monitoring capability by the radar facility as follows: (E) VHF and UHF emergency frequencies monitored
(V) VHF emergency frequency (121.5) monitored
(U) UHF emergency frequency (243.0) monitored

Additionally, unmonitored frequencies which are available on request from the controlling agency may be annotated with an "x".

A Alternate Minimums not standard. Civil users refer to tabulation. USA/USN/USAF pilots refer to appropriate regulations.

A NA Alternate minimums are Not Authorized due to unmonitored facility or absence of weather reporting service.

T Airport is published in the Takeoff Minimums, (Obstacle) Departure Procedures, and Diverse Vector Area (Radar Vectors) tabulation.

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GENERAL INFORMATION

This publication is issued every 56 days and includes Standard Instrument Approach Procedures (SIAPS), Standard Instrument Departures (SIDs), Standard Terminal Arrivals (STARs), IFR Takeoff Minimums and (Obstacle) Departure Procedures (ODPs), IFR Alternate Minimums, and Radar Instrument Approach Minimums for use by civil and military aviation. The organization responsible for SIAPs, Radar Minimums, SIDs, STARs and graphic ODPs is identified in parentheses in the top margin of the procedure; e.g., (FAA), (FAA-O), (USA), (USAF), (USN). SIAPS with the (FAA) and (FAA-O) designation are regulated under 14 CFR, Part 97. SIAPs with the (FAA-O) designation have been developed under Other Transaction Agreement (OTA) by private providers and have been certified by the FAA. See 14 CFR, Part 91.175 (a) and the AIM for further details. 14 CFR, Part 91.175 (g) and the Special Notices section of the Chart Supplement contain information on civil operations at military airports.

The FAA uses an internal numbering system on all charts in the TPP. This Approach and Landing (AL) number is located on the top center margin of the chart followed by the organization responsible for the procedure in parentheses, e.g., AL-18 (FAA), AL-227 (USAF).

CHART CURRENCY INFORMATION

Date of Latest Revision 09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.

FAA Procedure Amendment Number → Orig 31DEC09 ← Procedure Amendment Effective Date

FAA Procedure Amendment Number → Amdt 2B 12MAR09 ← Procedure Amendment Effective Date

The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc. On Departure Procedures and Standard Terminal Arrivals, procedural revisions to the current chart are indicated by an upnumber to the procedure title with the procedure amendment effective date following. On Radar Minima, Takeoff Minimums and (Obstacle) Departure Procedures and Diverse Vector Areas, the FAA Procedure Amendment Number, Procedure Effective Date, and the Julian Date of Last Revision will be shown on the same line, e.g., AMDT 2 10DEC15 (15344).

MISCELLANEOUS

★ Indicates a non-continuously operating facility, see Chart Supplement.

For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA.

Distances are in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway dimensions are in feet. Elevations are in feet, Mean Sea Level (MSL). Ceilings are in feet above airport elevation. Radials/bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

STANDARD TERMINAL ARRIVALS AND DEPARTURE PROCEDURES

The use of the associated codified STAR/DP and transition identifiers are requested of users when filing flight plans via teletype and are required for users filing flight plans via computer interface. It must be noted that when filing a STAR/DP with a transition, the first three coded characters of the STAR and the last three coded characters of the DP are replaced by the transition code. Examples: ACTON SIX ARRIVAL, file (AQN.AQN6); ACTON SIX ARRIVAL, EDNAS TRANSITION, file (EDNAS.AQN6). FREEHOLD THREE DEPARTURE, file (FREH3.RBV), FREEHOLD THREE DEPARTURE, ELWOOD CITY TRANSITION, file (FREH3.EWC).

PROCEDURE PBN/EQUIPMENT REQUIREMENTS

Users will begin to see Performance-Based Navigation (PBN) Requirements and Equipment Requirements on Instrument Approach Procedures (IAPs), RNAV STARS and RNAV DPs prominently displayed in separate, standardized notes boxes. For procedures with PBN elements, the PBN box will contain the procedure's navigation specification(s); and, if required: specific sensors or infrastructure needed for the navigation solution; any additional or advanced functional requirements; the minimum Required Navigation Performance (RNP) value and any amplifying remarks. Items listed in this PBN box are REQUIRED for the procedure's PBN elements. The Equipment Requirements Box will list non-PBN requirements. On charts with both PBN elements and equipment requirements, the PBN requirements box will be listed first. The publication of these notes will continue incrementally until all charts have been amended to comply with the new standard.

IAP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	From WINRZ, LIBGE: RNAV-1 GPS, RNAV-1GPS from MAP to YARKU.
Equipment Requirements Box →	DME required for LOC only.
Standard Procedure Notes Box →	T Circling to Rwy 25 NA at night. #For inop MALSR increase S-ILS 16R all cats visibility to 2½ SM.

RNAV STAR and DP PBN/Equipment Requirements Notes Box

PBN Requirements Box →	RNAV 1 - DME/DME/IRU or GPS
Equipment Requirements Box →	RADAR required

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., A1, V, ✿
2. Approach lighting systems that do not bear a system identification are indicated with a negative "L" beside the name.

A star (★) indicates non-standard PCL, consult Chart Supplement, e.g., L★

To activate lights, use frequency indicated in the communication section of the chart with a L or the appropriate lighting system identification e.g., UNICOM 122.8 L, A1, V

KEY MIKE	FUNCTION
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

ABBREVIATIONS

AAUP.....Attention All Users Page
ADF.....Automatic Direction Finder
ADIZ.....Air Defense Identification Zone
AFIS.....Automatic Flight Information Service
ALS.....Approach Light System
ALSF.....Approach Light System with Sequenced Flashing Lights
AOB.....At Or Below
AP.....Autopilot System
APCH.....Approach
APP CON.....Approach Control
ARR.....Arrival
ASOS.....Automated Surface Observing System
ASR/PAR.....Published Radar Minimums at this Airport
ASSC.....Airport Surface Surveillance Systems
ATIS.....Automatic Terminal Information Service
AUNICOM.....Automated UNICOM
AWOS.....Automated Weather Observing System
AZ.....Azimuth
BC.....Back Course
BND.....Bound
C.....Circling
CAT.....Category
CCW.....Counter Clockwise
CDI.....Course Deviation Indicator
Chan.....Channel
CIFP.....Coded Instrument Flight Procedures
CIR.....Circling
CLNC DEL.....Clearance Delivery
CNF.....Computer Navigation Fix
CPDLC.....Controller Pilot Data Link Communication
CTAF.....Common Traffic Advisory Frequency
CW.....Clockwise
D-ATIS.....Digital-Automatic Terminal Information Service
DA.....Decision Altitude
DER.....Departure End of Runway
DH.....Decision Height
DME.....Distance Measuring Equipment
DTHR.....Displaced Threshold
DVA.....Diverse Vector Area
ELEV.....Elevation
EMAS.....Engineered Material Arresting System
FAF.....Final Approach Fix
FD.....Flight Director System
FM.....Fan Marker
FMS.....Flight Management System
GBAS.....Ground Based Augmentation System
GCO.....Ground Communications Outlet
GLS.....Ground Based Augmentation System Landing System
GP.....Glidepath
GPI.....Ground Point of Interception
GPS.....Global Positioning System
GS.....Glide Slope
HAA.....Height above Airport
HAL.....Height above Landing
HAT.....Height above Touchdown
HATh.....Height Above Threshold
HCH.....Heliport Crossing Height
HGS.....Head-up Guidance System
HIRL.....High Intensity Runway Lights
HUD.....Head-up Display
IAF.....Initial Approach Fix
ICAO.....International Civil Aviation Organization
IF.....Intermediate Fix
IM.....Inner Marker
INOP.....Inoperative
INT.....Intersection
K.....Knots
KIAS.....Knots Indicated Airspeed
LAAS.....Local Area Augmentation System
LDA.....Localizer Type Directional Aid
Ldg.....Landing
LIRL.....Low Intensity Runway Lights
LNAV.....Lateral Navigation
LOC.....Localizer
LP.....Localizer Performance
LPV.....Localizer Performance with Vertical Guidance
LR.....Lead Radial. Provides at least 2 NM (Copter 1 NM) of lead to assist in turning onto the intermediate/final course.
MAA.....Maximum Authorized Altitude
MALS.....Medium Intensity Approach Light System
MALSF.....Medium Approach Lighting System with Sequenced Flashers
MALSR.....Medium Intensity Approach Light System with RAIL
MAP.....Missed Approach Point
MDA.....Minimum Descent Altitude
MIRL.....Medium Intensity Runway Lights
MM.....Middle Marker
MRA.....Minimum Reception Altitude
N/A.....Not Applicable
NA.....Not Authorized
NDB.....Non-directional Radio Beacon
NM.....Nautical Mile
NoPT.....No Procedure Turn Required (Procedure Turn shall not be executed without ATC clearance)

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ODALS..... Omnidirectional Approach Light System
ODP..... Obstacle Departure Procedure
OM..... Outer Marker
PAR..... Precision Approach Radar
PDC..... Pre-Departure Clearance
PRM..... Precision Runway Monitor
R..... Radial
RA..... Radio Altimeter setting height
RAIL..... Runway Alignment Indicator Lights
RCLS..... Runway Centerline Light System
REIL..... Runway End Identifier Lights
RF..... Radius-to-Fix
RLLS..... Runway Lead-in Light System
RNAV..... Area Navigation
RNP..... Required Navigation Performance
RPI..... Runway Point of Intercept(ion)
RRL..... Runway Remaining Lights
Rwy..... Runway
RVR..... Runway Visual Range
S..... Straight-in
SALS..... Short Approach Light System
SALSF..... Short Approach Lighting System with Sequenced Flashing Lights
SSALF..... Simplified Short Approach Lighting System with Sequenced Flashers
SSALR..... Simplified Short Approach Light System with RAIL
SSALS..... Simplified Short Approach Lighting System
SDF..... Simplified Directional Facility
SM..... Statute Mile
SOIA..... Simultaneous Offset Instrument Approach
SR-SS..... Sunrise-Sunset
TAA..... Terminal Arrival Area
TAC..... TACAN
TCH..... Threshold Crossing Height (height in feet Above Ground level)
TDZ..... Touchdown Zone
TDZE..... Touchdown Zone Elevation
TDZ/CL..... Touchdown Zone and Runway Centerline Lighting
TDZL..... Touchdown Zone Lights
THR..... Threshold
TODA..... Takeoff Distance Available
TORA..... Takeoff Run Available
TR..... Track
VASI..... Visual Approach Slope Indicator
VCOA..... Visual Climb Over Airport
VDP..... Visual Descent Point
VGSI..... Visual Glide Slope Indicator
VNAV..... Vertical Navigation
WAAS..... Wide Area Augmentation System
WP/WPT..... Waypoint (RNAV)

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LEGEND 20086

INSTRUMENT APPROACH PROCEDURES (CHARTS)

PLANVIEW SYMBOLS

TERMINAL ROUTES

Procedure Track

Missed Approach

Visual Flight Path

165°
345°
Procedure Turn
(Type degree and point of turn optional)

3100 NoPT 5.6 NM to GS Intcpt
045°
(14.2 to LOM)
Minimum Route Altitude
2000
155°
Feeder Route
(15.1)
Mileage

HOLDING PATTERNS

Missed Approach
090°
270°

Hold-in-lieu of Procedure Turn
090°
1 min
270°

090°
(IAS)
270°
4 NM

HOLD 8000
Arrival
090°
270°

Holding pattern with max. restricted airspeed:
(175K) applies to all altitudes.
(210K) applies to altitudes above 6000′ to and including 14000′.
Arrival Holding Pattern altitude restrictions will be indicated when they deviate from the adjacent leg.
Timing or distance limits for Hold-in-lieu of Procedure Turn Holding Patterns will be shown.
DME fixes may be shown.

FIXES/ATC REPORTING REQUIREMENTS

Reporting Point
▲ Name (Compulsory)
△ Name (Non-Compulsory)

Intersection

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

MAP WP (Flyover)

Computer Navigation Fix (CNF) - No ATC Function
x (NAME) ("x" omitted when it conflicts with runway pattern)

15 DME Distance From Facility

AUSTN INT
ARC/DME/RNAV Fix

R-198 → Radial line and value

LR-198 → Lead Radial

LB-198 → Lead Bearing

ALTITUDES

5500 Mandatory Altitude
2500 Minimum Altitude
4300 Maximum Altitude
3000 Recommended Altitude
5000 Mandatory Block
3000 Altitude

INDICATED AIRSPEED

175K	120K	250K	180K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed	Recommended Airspeed

RADIO AIDS TO NAVIGATION

110.1 Underline indicates No Voice transmitted on this frequency

Compulsory:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

Non-Compulsory:
VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

LOM/LMM (Compass locator at Outer Marker/Middle Marker)

Marker Beacon

Marker beacons that are not specifically part of the procedure.

Localizer (LOC/LDA) Course
Right side shading- Front course; Left side shading- Back Course

SDF Course

LOC/DME

LOC/LDA/SDF Transmitter
(shown when installation is offset from its normal postion off the end of the runway.)

Primary Navaid with Coordinate Values
LIMA
114.5 LIM
Chan 92
S12°00.80′
W77°07.00′

Secondary Navaid
LMM
LIMA
248 NT

SCOTT
Chan 59
SKE
(112.2)
VHF Paired Frequency

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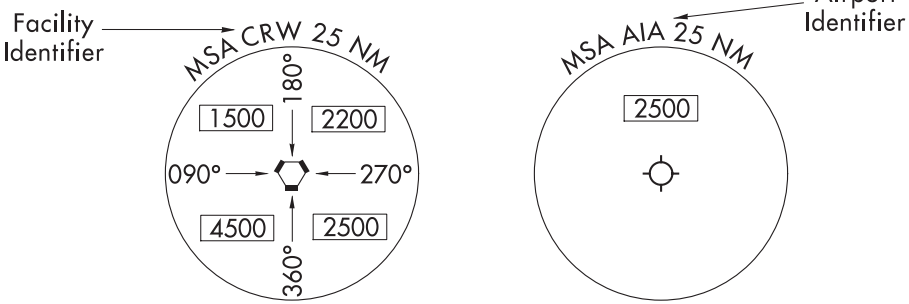
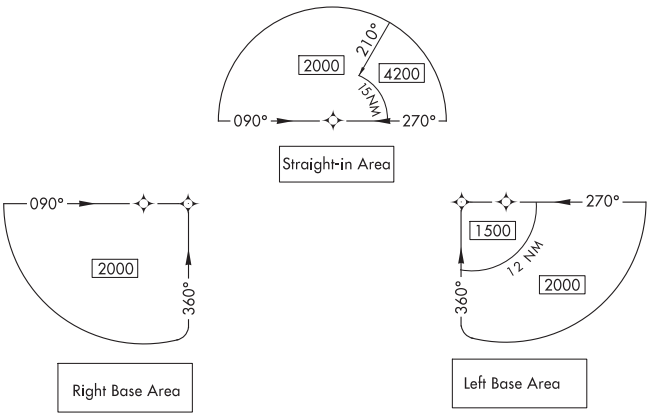
PLANVIEW SYMBOLS

MINIMUM SAFE ALTITUDE (MSA)



(arrows on distance circle identify sectors)

TERMINAL ARRIVAL AREA (TAA)



MISCELLANEOUS

VOR Changeover Point

RWY 15 S12° 00.52′ W77° 06.91′ — End of Rwy Coordinates (DOD only)

Distance not to scale

International Boundary

Air Defense Identification Zone

SPECIAL USE AIRSPACE

R-352

R-Restricted
P-Prohibited
W-Warning
A-Alert

AIRPORTS

Primary and Secondary (named in planview)

Civil

Seaplane Base

Heliport

OBSTACLES

Spot Elevation

Obstacle

Highest Obstacle

Highest Spot Elevation

Group of Obstacles

Doubtful accuracy

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LEGEND 20198

INSTRUMENT APPROACH PROCEDURES (CHARTS)

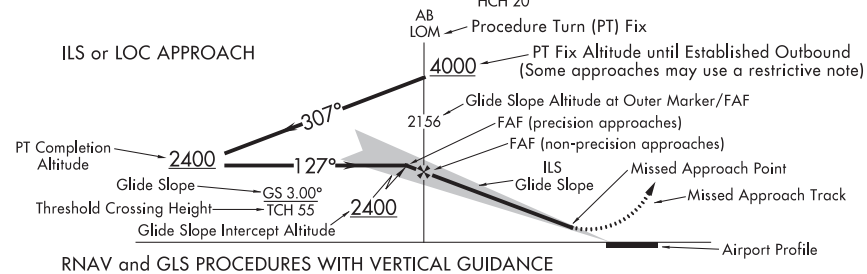
PROFILE VIEW

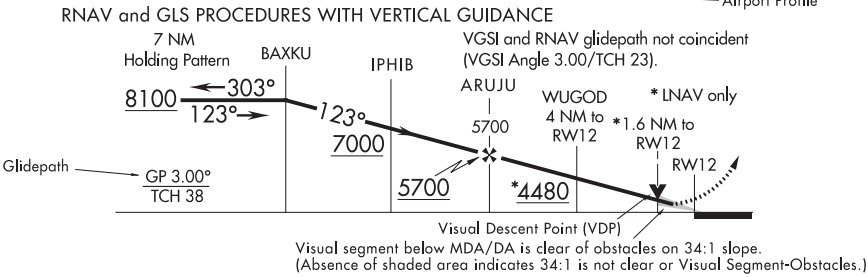
Three different methods are used to depict either electronic or vertical guidance: "GS", "GP", or "VDA".

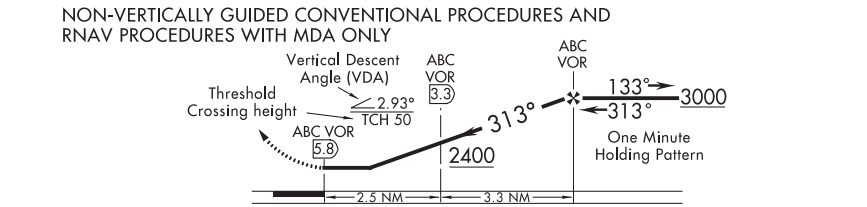
1. "GS" indicates that an Instrument Landing System (ILS) electronic glide slope (a ground antenna) provides vertical guidance. The profile section of ILS procedures depict a GS angle and TCH in the following format: GS 3.00°/TCH 55.

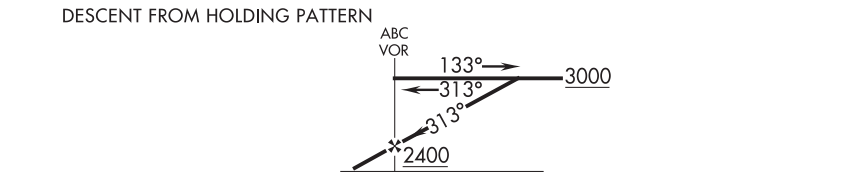
2. "GP" on GLS and RNAV procedures indicates that either electronic vertical guidance (via Wide Area Augmentation System - WAAS or Ground Based Augmentation System - GBAS) or barometric vertical guidance is provided. GLS and RNAV procedures with a published decision altitude (DA/H) depict a GP angle and TCH in the following format: GP 3.00°/TCH 50.

3. An advisory vertical descent angle (VDA) is provided on non-vertically guided conventional procedures and RNAV procedures with only a minimum descent altitude (MDA) to assist in preventing controlled flight into terrain. On Civil (FAA) procedures, this information is placed above or below the procedure track following the fix it is based on. Absence of a VDA or a note that the VDA is not authorized indicates that the prescribed obstacle clearance surface is not clear and the VDA must not be used below MDA. VDA is depicted in the following format: ∠3.00°/TCH 55. On Copter procedures this is depicted in the following format: ∠7.30°/HCH 20.









ALTITUDES

5500	Mandatory Altitude	3000	Recommended Altitude
2500	Minimum Altitude	5000/3000	Mandatory Block Altitude
4300	Maximum Altitude		

PROFILE SYMBOLS

- 2400 — Glide Slope/Glidepath Intercept Altitude and final approach fix for vertically guided approach procedures.
- ▼ Visual Descent Point (VDP)
- Visual Flight Path
- Note: Facilities and waypoints are depicted as a solid vertical line while fixes and intersections are depicted as a dashed vertical line.

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LEGEND 19059

LEGEND
STANDARD TERMINAL ARRIVAL (STAR) CHARTS
DEPARTURE PROCEDURE (DP) CHARTS

Applies to both STAR and DP Charts unless otherwise noted.

RADIO AIDS TO NAVIGATION

Compulsory:

VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

Non-Compulsory:

VOR, VORTAC, DME, VOR/DME, TACAN, NDB, NDB/DME

LMM, LOM (Compass locator)

Marker Beacon

LOC, LOC/DME (shown when installation is offset from its normal position off the end of the runway.) (DP)

Localizer Course

SDF Course

(T) indicates frequency protection range (STAR)

(Y) TACAN must be placed in "Y" mode to receive distance information

Identifier

Frequency

ORLANDO
112.25 (T) ORL
Chan 59 (Y)
N28°32.56' - W81°20.10'

Geographic Position

L-19, H-5

DME or TACAN Channel

Underline indicates no voice transmitted on this frequency

Enroute Chart Reference

Coordinates

Waypoint Name

PRAYS
N38°58.30' W89°51.50'
112.7 CAP 187.1°-56.2
590

Frequency

Identifier

Reference Facility Elevation

Radial-Distance (Facility to Waypoint)

FIXES/ATC REPORTING REQUIREMENTS

Reporting Points
N00°00.00'
W00°00.00'

75 → DME Mileage (when not obvious)

▲ Fix-Compulsory and

△ Non-Compulsory Position Report

DME fix

WAYPOINT (Compulsory)

WAYPOINT (Non-Compulsory)

FLYOVER POINT

X Computer Navigation Fix (CNF) - No ATC Function
N00°00.00'
W00°00.00'

ROUTES

4500 MEA-Minimum Enroute Altitude

*3500 MOCA-Minimum Obstruction Clearance Altitude

270° Departure Route - Arrival Route

(65) Mileage between Radio Aids, Reporting Points, and Route Breaks

Transition Route

R-275 Radial line and value

Lost Communications Track

Visual Flight Path (DP)

V12 J80 Airway/Jet Route Identification

DP Holding Pattern (IAS)

STAR Holding Pattern (IAS)

Holding pattern with max. restricted airspeed
(175K) applies to all altitudes
(210K) applies to altitudes above 6000' to and including 14000'

SPECIAL USE AIRSPACE

R-352

R-Restricted W-Warning
P-Prohibited A-Alert
MOA-Military Operations Area

ALTITUDES

5500	2300	4800
Mandatory Altitude (Cross at)	Minimum Altitude (Cross at or above)	Maximum Altitude (Cross at or below)

15000
12000
Block Altitude

Altitude change at other than Radio Aids (STAR)

INDICATED AIRSPEED

175K	120K	250K
Mandatory Airspeed	Minimum Airspeed	Maximum Airspeed

AIRPORTS

(DP)

Heliport

Civil Military Joint Civil-Military

Airports not served by the procedure shown in screened color (STAR)

Civil Military Joint Civil-Military

MISCELLANEOUS

Changeover Point

Distance not to scale (DP)

International Boundary (DP)

Air Defense Identification Zone

T Takeoff Minimums and (Obstacle) Departure Procedures entry published. (DP)

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LEGEND 19059

19339

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

Hard Surface | Other Than Hard Surface | Stopways,Taxiways, Parking Areas | Metal Surface

Closed Runway | Closed Surface | Under Construction | Water Runway

ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.

uni-directional | bi-directional | Jet Barrier

ARRESTING SYSTEM (EMAS)

REFERENCE FEATURES

Displaced Threshold.....
Hot Spot .....
Runway Holding Position Markings.....
Buildings.....
24-Hour Self-Serve Fuel ##.....
Tanks.....
Obstructions.....
Airport Beacon #.....
Runway
Radar Reflectors.....
Control Tower #..... TWR

When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

A fuel symbol is shown to indicate 24-hour self-serve fuel available, see appropriate Chart Supplement for information.

NOTE:
All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point.....

NOTE:
Landmark features depicted on Copter Approach insets and sketches are provided for visual reference only.

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.8% UP ⟵ 0.3% DOWN
(shown when runway slope is greater than or equal to 0.3%)

NOTE:
Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

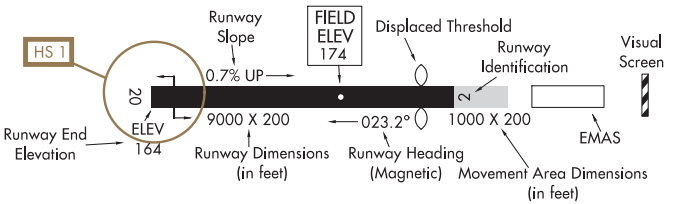
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A D symbol is shown to indicate runway declared distance information available, see appropriate Chart Supplement for distance information.



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

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LEGEND 15344

INSTRUMENT APPROACH PROCEDURES (CHARTS)

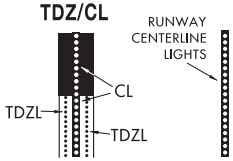
APPROACH LIGHTING SYSTEM - UNITED STATES

Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, e.g., A2, V, etc.

A dot " ● " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., A1. Negative symbology, e.g., A1, V indicates Pilot Controlled Lighting (PCL).

RUNWAY TOUCHDOWN ZONE AND CENTERLINE LIGHTING SYSTEMS

TDZ/CL

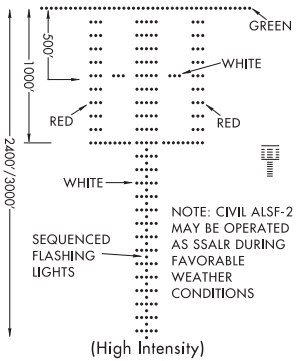


AVAILABILITY of TDZ/CL will be shown by NOTE in SKETCH e.g. "TDZ/CL Rwy 15"

APPROACH LIGHTING SYSTEM

A

ALSF-2



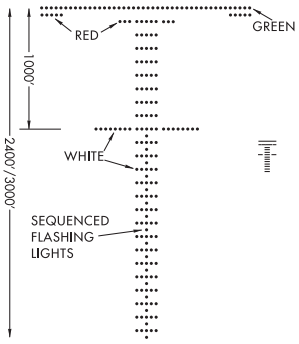
NOTE: CIVIL ALSF-2 MAY BE OPERATED AS SSALR DURING FAVORABLE WEATHER CONDITIONS

(High Intensity)
LENGTH 2400/3000 FEET

APPROACH LIGHTING SYSTEM

A1

ALSF-1



(High Intensity)
LENGTH 2400/3000 FEET

SHORT APPROACH LIGHTING SYSTEM

A2

SALS/SALSF

(High Intensity)

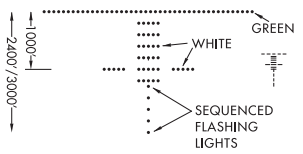
SAME AS INNER 1500' OF ALSF-1

SIMPLIFIED SHORT APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

A3

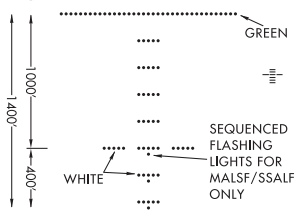
SSALR



(High Intensity)
LENGTH 2400/3000 FEET

MEDIUM INTENSITY (**MALS** and **MALSF**) OR SIMPLIFIED SHORT (**SSALS** and **SSALF**) APPROACH LIGHTING SYSTEMS

A4



LENGTH 1400 FEET

MEDIUM INTENSITY APPROACH LIGHTING SYSTEM

with Runway Alignment Indicator Lights

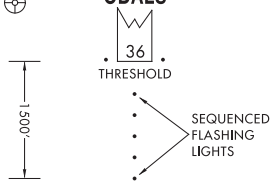
A5

MALSR

SAME LIGHT CONFIGURATION AS SSALR.

OMNIDIRECTIONAL APPROACH LIGHTING SYSTEM

ODALS



LENGTH 1500 FEET

VISUAL APPROACH SLOPE INDICATOR

V

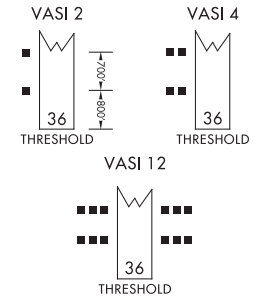
VASI

VISUAL APPROACH SLOPE INDICATOR WITH STANDARD THRESHOLD CLEARANCE PROVIDED.

ALL LIGHTS WHITE — TOO HIGH

FAR LIGHTS RED, NEAR LIGHTS WHITE — ON GLIDE SLOPE

ALL LIGHTS RED — TOO LOW

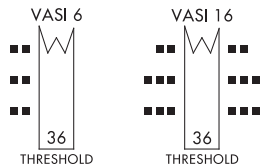


VISUAL APPROACH SLOPE INDICATOR

V3

VASI

3-BAR, 6 OR 16 BOX, VISUAL APPROACH SLOPE INDICATOR THAT PROVIDES 2 GLIDE ANGLES AND 2 THRESHOLD CROSSING HEIGHTS.



LEGEND 15344

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LEGEND 18256

INSTRUMENT APPROACH PROCEDURES (CHARTS)

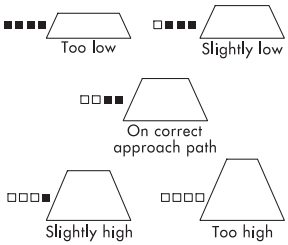
APPROACH LIGHTING SYSTEM - UNITED STATES

Approach lighting and visual glide slope systems are indicated on the airport sketch by an identifier, (A2), (V) etc.

A dot " ● " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1). Negative symbology, e.g., (A1), (V) indicates Pilot Controlled Lighting (PCL).

(P) PRECISION APPROACH PATH INDICATOR

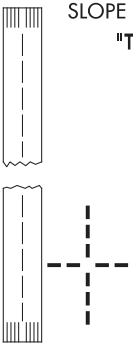
PAPI



Legend: □ White ■ Red

(V1) "T"-VISUAL APPROACH SLOPE INDICATOR

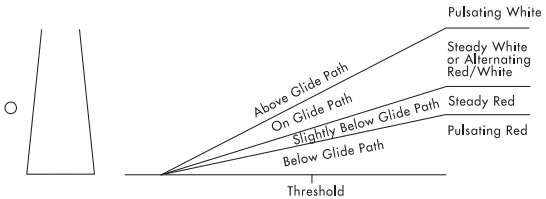
"T"-VASI



"T" ON BOTH SIDES OF RWY ALL LIGHTS VARIABLE WHITE. CORRECT APPROACH SLOPE- ONLY CROSS BAR VISIBLE. UPRIGHT "T"- FLY UP. INVERTED "T"- FLY DOWN. RED "T"- GROSS UNDERSHOOT.

(V2) PULSATING VISUAL APPROACH SLOPE INDICATOR

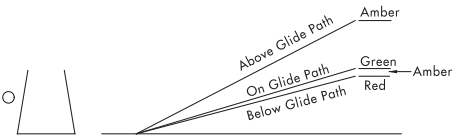
PVASI



CAUTION: When viewing the pulsating visual approach slope indicators in the pulsating white or pulsating red sectors, it is possible to mistake this lighting aid for another aircraft or a ground vehicle. Pilots should exercise caution when using this type of system.

(V4) TRI-COLOR VISUAL APPROACH SLOPE INDICATOR

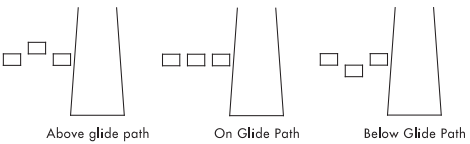
TRCV



CAUTION: When the aircraft descends from green to red, the pilot may see a dark amber color during the transition from green to red.

(V5) ALIGNMENT OF ELEMENTS SYSTEMS

APAP



Painted panels which may be lighted at night. To use the system the pilot positions the aircraft so the elements are in alignment.

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FREQ PAIRING 20198

FREQUENCY PAIRING TABLE

TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY	TACAN CHANNEL	VHF FREQUENCY
17Y	108.05	40X	110.30	88Y	114.15
18X	108.10	40Y	110.35	89Y	114.25
18Y	108.15	41Y	110.45	90Y	114.35
19Y	108.25	42X	110.50	91Y	114.45
20X	108.30	42Y	110.55	92Y	114.55
20Y	108.35	43Y	110.65	93Y	114.65
21Y	108.45	44X	110.70	94Y	114.75
22X	108.50	44Y	110.75	95Y	114.85
22Y	108.55	45Y	110.85	96Y	114.95
23Y	108.65	46X	110.90	97Y	115.05
24X	108.70	46Y	110.95	98Y	115.15
24Y	108.75	47Y	111.05	99Y	115.25
25Y	108.85	48X	111.10	100Y	115.35
26X	108.90	48Y	111.15	101Y	115.45
26Y	108.95	49Y	111.25	102Y	115.55
27Y	109.05	50X	111.30	103Y	115.65
28X	109.10	50Y	111.35	104Y	115.75
28Y	109.15	51Y	111.45	105Y	115.85
29Y	109.25	52X	111.50	106Y	115.95
30X	109.30	52Y	111.55	107Y	116.05
30Y	109.35	53Y	111.65	108Y	116.15
31Y	109.45	54X	111.70	109Y	116.25
32X	109.50	54Y	111.75	110Y	116.35
32Y	109.55	55Y	111.85	111Y	116.45
33Y	109.65	56X	111.90	112Y	116.55
34X	109.70	56Y	111.95	113Y	116.65
34Y	109.75	80Y	113.35	114Y	116.75
35Y	109.85	81Y	113.45	115Y	116.85
36X	109.90	82Y	113.55	116Y	116.95
36Y	109.95	83Y	113.65	117Y	117.05
37Y	110.05	84Y	113.75	118Y	117.15
38X	110.10	85Y	113.85	119Y	117.25
38Y	110.15	86Y	113.95		
39Y	110.25	87Y	114.05		

See the Chart Supplement for a complete listing.

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FREQ PAIRING 20198

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

ALFRED C BUBBA THOMAS
---SEE SINTON, TX

ALICE, TX
ALICE INTL(ALI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 13 1
RNAV (GPS) RWY 31 2
LOC/DME RWY 31 3
VOR RWY 31 4
VOR-A 5

ALPINE, TX
ALPINE-CASPARIS MUNI(E38)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
IAPS ..... RNAV (GPS) RWY 19 6
RNAV (GPS) RWY 23 7

ARANSAS COUNTY
---SEE ROCKPORT, TX

AUSTIN, TX
AUSTIN EXECUTIVE(EDC)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
STARS ..... BITER NINE Z2
BLEWE FOUR Z3
POTRR ONE (RNAV) Z17
IAPS ..... RNAV (GPS) RWY 13 8
RNAV (GPS) RWY 31 9
AIRPORT DIAGRAM 10
DPS ..... AEROZ ONE (RNAV) 11
BNDIA TWO (RNAV) 12
ELOEL TWO (RNAV) 13
ILEXY TWO (RNAV) 14
MUCKY TWO (RNAV) 15
SAYBR TWO (RNAV) 16

AUSTIN-BERGSTROM INTL(AUS)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ....M
HOT SPOT ....P
STARS ..... BITER NINE Z2
BLEWE FOUR Z3
DXEEE ONE (RNAV) Z8
KALLA FOUR Z11
LAIKS TWO (RNAV) Z12
SEWZY FIVE (RNAV) Z19
WLEEE FIVE (RNAV) Z24
IAPS ..... ILS OR LOC RWY 17L 17
ILS OR LOC RWY 17R 18
ILS OR LOC RWY 35L 19
ILS OR LOC RWY 35R 20
ILS RWY 17L (SA CAT I) 21
ILS RWY 35R (SA CAT I - II) 22
ILS RWY 17L (CAT II - III) 23
RNAV (RNP) Z RWY 17L 24
RNAV (RNP) Z RWY 17R 25
RNAV (RNP) Z RWY 35L 26
RNAV (RNP) Z RWY 35R 27
RNAV (GPS) Y RWY 17L 28
RNAV (GPS) Y RWY 17R 29
RNAV (GPS) Y RWY 35L 30
RNAV (GPS) Y RWY 35R 31
AIRPORT DIAGRAM 32
DPS ..... AEROZ ONE (RNAV) 33
AUSTIN FIVE 34
BNDIA TWO (RNAV) 36
CENTEX SIX 37
ELOEL TWO (RNAV) 39
ILEXY TWO (RNAV) 40
MUCKY TWO (RNAV) 41
PALMS TWO 42
SAYBR TWO (RNAV) 43

INDEX OF TERMINAL CHARTS AND MINIMUMS

NAME PROC SECT PG

AUSTIN, TX
SAN MARCOS RGNL(HYI)
TAKEOFF MINIMUMS L
ALTERNATE MINIMUMS ..... M
HOT SPOT ..... P
STARS ..... BITER NINE Z2
BLEWE FOUR Z3
GABOO ONE (RNAV) Z9
POTRR ONE (RNAV) Z17
IAPS ..... ILS OR LOC RWY 13 44
RNAV (GPS) RWY 08 45
RNAV (GPS) RWY 13 46
RNAV (GPS) RWY 17 47
RNAV (GPS) RWY 26 48
RNAV (GPS) RWY 31 49
RNAV (GPS) RWY 35 50
NDB RWY 13 51
AIRPORT DIAGRAM 52
DPS ..... AEROZ ONE (RNAV) 53
BNDIA TWO (RNAV) 54
ELOEL TWO (RNAV) 55
ILEXY TWO (RNAV) 56
MUCKY TWO (RNAV) 57
SAYBR TWO (RNAV) 58

BALLINGER, TX
BRUCE FIELD(E30)
TAKEOFF MINIMUMS L
IAPS ..... RNAV (GPS) RWY 17 59
RNAV (GPS) RWY 35 60

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IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or radar vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow radar vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

SC-3, 25 FEB 2021 to 22 APR 2021

ALICE, TX

ALICE INTL (ALI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15APR04 (04106) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17, multiple poles beginning 601' from DER, 413' right to 340' left of centerline, up to 36' AGL/204' MSL.
Multiple trees beginning 205' from DER, 348' left to 317' right of centerline, up to 26' AGL/194' MSL.
Rwy 26, building 797' from DER, 366' left of centerline, 30'AGL/208' MSL.
Tree 812' from DER, 301' left of centerline, 27' AGL/205' MSL.
Rod on OL DME, 715' from DER, 258' right of centerline, 21' AGL/199' MSL.
Steel post 83' from DER, 344' right of centerline, 4' AGL/181' MSL.
Rwy 31, rod on OL DME 388' from DER, 256' left of centerline, 21' AGL/199' MSL.
Tree 439' from DER, 608' left of centerline, 16' AGL/194' MSL.
Steel post 2' from DER, 251' right of centerline, 164' AGL/181' MSL.
Tree 1067' from DER, 359' right of centerline, 28' AGL/206' MSL.
Rwy 35, windmill 1461' from DER, 164' left of centerline, 140' AGL/214' MSL.
Bush 330' from DER, 287' right of runway, 14' AGL/185' MSL.

ALPINE, TX

ALPINE-CASPARIS MUNI (E38)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 5 26JUL12 (12208) (FAA)

TAKEOFF MINIMUMS:

Rwy 23, NA - obstacles.

Rwy 19, std. w/ min. climb of 432' per NM to 6900 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 1, climb heading 029° to 5300 then climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required)

Rwy 5, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. (ADF required)

Rwy 19, climbing left turn direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. For climb in visual conditions, cross Alpine-Casparis Muni airport northeast bound at or above 6200 MSL then direct BWR NDB, continue climb in BWR NDB holding pattern (hold N, LT, 194° inbound) to 8600 before proceeding on course. Do not exceed 200 KIAS until established direct BWR NDB. When executing VCOA, notify ATC prior to departure. (ADF required)

TAKEOFF OBSTACLE NOTES:

Rwy 1, Poles, sign and tree beginning 13' from DER, 228' right of centerline, up to 33' AGL/4472' MSL.
Vehicles on road and fence beginning 10' from DER, 274' left of centerline, up to 15' AGL/4463' MSL.

Rwy 5, vehicles on road, poles, tree, sign and antenna beginning 18' from DER, 165' right of centerline, up to 38' AGL/4477' MSL.
Poles, trees and sign beginning 13' from DER, 240' left of centerline, up to 37' AGL/4476' MSL.

Rwy 19, Vehicles on road, poles and terrain beginning 32' from DER, 60' right of centerline, up to 43' AGL/4562' MSL.
Vehicles on road, poles, trees, sign and windmill beginning 2' from DER, 153' left of centerline, up to 37' AGL/4556' MSL.

AUSTIN, TX

AUSTIN-BERGSTROM INTL (AUS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 07DEC17 (17341) (FAA)

DEPARTURE PROCEDURE:

Rwy 35L, climb heading 355° to 1700 before turning left.

Rwy 35R, climb heading 355° to 1300 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 17L, tree 497' from DER, 576' left of centerline, 507' MSL.
Tree 617' from DER, 585' right of centerline, 498' MSL.
Trees beginning 643' from DER, 663' left of centerline, up to 517' MSL.

Rwy 17R, tree 1006' from DER, 730' right of centerline, 519' MSL.

Rwy 35R, tree 816' from DER, 663' right of centerline, 528' MSL.

AUSTIN EXECUTIVE (EDC)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwys 16, 34, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

Rwy 31, pole and trees beginning 900' from DER, 258' left of centerline, up to 669' MSL.
Transmission line tower 1931' from DER, 911' right of centerline, 83' AGL/670' MSL.
Transmission line tower 2325' from DER, 878' right of centerline, 89' AGL/682' MSL.
Poles beginning 2362' from DER, 590' right of centerline, up to 113' AGL/707' MSL.
Transmission line tower 2568' from DER, 1159' left of centerline, 77' AGL/697' MSL.
Transmission line tower 3692' from DER, 437' left of centerline, 122' AGL/728' MSL.
Transmission line tower 4411' from DER, 1110' left of centerline, 135' AGL/749' MSL.

AUSTIN, TX (CON'T)

SAN MARCOS RGNL (HYI)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 17AUG17 (17229) (FAA)

DEPARTURE PROCEDURE:

Rwy 31, climb heading 306° to 1500 before turning right.

Rwy 35, climb heading 006° to 2500 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 8, sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.
Tree 942' from DER, 259' left of centerline, 612' MSL.
Rwy 13, tree 2505' from DER, 194' right of centerline, 71' AGL/637' MSL.
Tree 2615' from DER, 90' right of centerline, 75' AGL/639' MSL.
Trees beginning 2639' from DER, 139' right of centerline, up to 80' AGL/646' MSL.
Rwy 17, bush 26' from DER, 74' left of centerline, 2' AGL/576' MSL.
Rwy 26, REIL 9' from DER, 90' right of centerline, 4' AGL/589' MSL.
Tree 1073' from DER, 684' right of centerline, 621' MSL.
Poles and trees beginning 1206' from DER, 394' right of centerline, up to 50' AGL/638' MSL.
Rwy 31, trees beginning 912' from DER, 613' right of centerline, up to 622' MSL.
Pole and tree beginning 1046' from DER, 630' right of centerline, up to 34' AGL/631' MSL.
Tree 1287' from DER, 718' left of centerline, 627' MSL.
Rwy 35, sign 25' from DER, 198' left of centerline, 3' AGL/597' MSL.
Tree 2562' from DER, 1113' left of centerline, 659' MSL.
Tree 3227' from DER, 162' left of centerline, 54' AGL/676' MSL.
Trees beginning 3540' from DER, 51' left of centerline, up to 52' AGL/687' MSL.
Tree 3655' from DER, 362' right of centerline, 54' AGL/692' MSL.
Trees beginning 3664' from DER, 11' right of centerline, up to 54' AGL/693' MSL.
Tree 3727' from DER, 81' left of centerline, 52' AGL/688' MSL.
Tree 3741' from DER, 94' left of centerline, 52' AGL/690' MSL.
Tree 3972' from DER, 40' left of centerline, 48' AGL/696' MSL.
Tree 4131' from DER, 37' right of centerline, 42' AGL/699' MSL.
Tree 4146' from DER, 33' right of centerline, 43' AGL/700' MSL.
Pole and trees beginning 4150' from DER, 15' right of centerline, up to 44' AGL/702' MSL.
Tree 4209' from DER, 10' left of centerline, 39' AGL/701' MSL.
Tree 4222' from DER, 73' right of centerline, 42' AGL/704' MSL.
Tree 4225' from DER, 25' left of centerline, 38' AGL/702' MSL.
Trees beginning 4229' from DER, 35' right of centerline, up to 47' AGL/708' MSL.
Trees beginning 4406' from DER, 160' right of centerline, up to 36' AGL/709' MSL.
Trees beginning 4426' from DER, 278' right of centerline, up to 36' AGL/711' MSL.
Pole, buildings, and trees beginning 4435' from DER, 123' right of centerline, up to 47' AGL/720' MSL.
Pole 4450' from DER, 16' left of centerline, 36' AGL/707' MSL.
Pole, telephone line, and trees beginning 4554' from DER, 10' right of centerline, up to 35' AGL/722' MSL.
Tree 4785' from DER, 1629' left of centerline, 716' MSL.
Trees beginning 5071' from DER, 1533' left of centerline, up to 49' AGL/738' MSL.

BALLINGER, TX

BRUCE FIELD (E30)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22SEP11 (11265) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17, trees beginning 1902' from DER, 661' right of centerline, up to 100' AGL/1859' MSL.
Rwy 35, trees, building, and road beginning 29' from DER, 210' left of centerline, up to 100' AGL/1839' MSL.
Tree and poles beginning 887' from DER, 429' right of centerline, up to 37' AGL/1772' MSL.

BEEVILLE, TX

BEEVILLE MUNI (BEA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26MAY16 (16147) (FAA)

TAKEOFF MINIMUMS:

Rwys 18, 36, NA-environmental.
Rwy 30, 300-2 or std. w/ min. climb of 239' per NM to 700.

TAKEOFF OBSTACLE NOTES:

Rwy 12, pole, and trees beginning 64' from DER, 290' right of centerline, up to 29' AGL/272' MSL.
Tree, road, and pole beginning 153' from DER, 9' right of centerline, up to 33' AGL/275' MSL.
Trees beginning 756' from DER, 50' left of centerline, up to 279' MSL.
Trees and pole beginning 933' from DER, 30' right of centerline, up to 282' MSL.
Rwy 30, pole, tree, and building beginning 117' from DER, 290' left of centerline, up to 32' AGL/301' MSL.
Tree 1054' from DER, 574' left of centerline, 307' MSL.
Tree 1835' from DER, 452' right of centerline, 319' MSL.
Pole and trees beginning 1875' from DER, 287' left of centerline, up to 323' MSL.
Tree beginning 1907' from DER, 246' right of centerline, up to 53' AGL/339' MSL.
Trees and poles beginning 1934' from DER, 100' left of centerline, up to 336' MSL.
Tower 1.4 NM from DER, 2568' right of centerline, 230' AGL/542' MSL.

BIG LAKE, TX
REAGAN COUNTY (E41)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 24MAY18 (18144) (FAA)
TAKEOFF MINIMUMS:
Rwys 9, 27, NA - environmental.
DEPARTURE PROCEDURE:
Rwy 16, fly heading 161° to 3300 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 16, road 384' from DER, 603' right of centerline, 17' AGL/2716' MSL.

BIGGS AAF (KBIF)
FORT BLISS, TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3A 16JUL20 (20198)
DEPARTURE PROCEDURE:
Rwy 4, climbing right turn to intercept ELP VORTAC R-330 to ELP, thence...
Rwy 22, climbing left turn to intercept ELP VORTAC R-240 to ELP, thence...
Continue climb in ELP holding pattern (hold east, left turns, 261° inbound) to cross ELP at or above MEA for route of flight before proceeding on course. Procedure NA for TACAN-only equipped aircraft.
TAKEOFF OBSTACLE NOTES:
Rwy 22, pole 1978' from DER, 840' left of cntrln, 3961' MSL.
Pole, 4413' from DER, 1663' right of cntrln, 131' AGL/4025' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)
AMDT 1 05NOV20 (20310) (FAA)
Rwy 3, heading as assigned by ATC; requires min. climb of 224' per NM to 10700.
Rwy 21, heading as assigned by ATC; requires min. climb of 237' per NM to 6800.

BRADY, TX
CURTIS FIELD (BBD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 14FEB08 (08045) (FAA)
TAKEOFF MINIMUMS:
Rwys 8, 26, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 17, Light poles, trees, fence, terrain, and vehicle on road beginning 50' from DER, 362' left of centerline, up to 30' AGL/1827' MSL.
Trees beginning 17' from DER, 216' right of centerline, up to 30' AGL/1818' MSL.

BROWNSVILLE, TX
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 13OCT16 (16287) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees and bushes beginning 32' from DER, 399' left of centerline, up to 30' AGL/50' MSL.
Trees, bushes, pole and building beginning 751' from DER, 191' right of centerline, up to 44' AGL/64' MSL.
Rwy 18, trees and pole beginning 56' from DER, 61' left of centerline, up to 53' AGL/78' MSL.
Trees and poles beginning 1011' from DER, 96' right of centerline, up to 44' AGL/69' MSL.
Rwy 31, airplanes on taxiway beginning 371' from DER, 563' right of centerline, up to 45' AGL/64' MSL.
Trees beginning 1141' from DER, 567' right of centerline, up to 37' AGL/52' MSL.
Rwy 36, pole and trees beginning 695' from DER, 140' right of centerline, up to 56' AGL/71' MSL.
Trees beginning 719' from DER, 84' left of centerline, up to 63' AGL/78' MSL.

BROWNWOOD, TX
BROWNWOOD RGNL (BWD)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 20OCT11 (11293) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 1523' from DER, 844' right of centerline, up to 47' AGL/1412' MSL.
Rwy 17, trees beginning 797' from DER, 649' left of centerline, up to 33' AGL/1398' MSL.
Trees beginning 691' from DER, 640' right of centerline, up to 31' AGL/1393' MSL.
Building 737' from DER, 253' right of centerline, 29' AGL/1391' MSL.
Rwy 35, trees beginning 77' from DER, 272' left of centerline, up to 49' AGL/1411' MSL.
Trees beginning 771' from DER, 282' right of centerline, up to 46' AGL/1418' MSL.

BURNET, TX

BURNET MUNI KATE CRADDOCK FIELD (BMQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 03JAN19 (19003) (FAA)

DEPARTURE PROCEDURE:

Rwy 1, climb heading 009° to 1700 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 1, trees beginning 502' from DER, 28' left of centerline, up to 55' AGL/1355' MSL.
Trees beginning 1160' from DER, 52' right of centerline, up to 55' AGL/1335' MSL.
Trees beginning 1502' from DER, 30' left of centerline, up to 55' AGL/1375' MSL.
Rwy 19, trees beginning 158' from DER, 63' left of centerline, up to 55' AGL/1286' MSL.
Trees beginning 1194' from DER, 15' right of centerline, up to 55' AGL/1315' MSL.

CARRIZO SPRINGS, TX

DIMMIT COUNTY (CZT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 24SEP87 (87267) (FAA)

DEPARTURE PROCEDURE:

Rwy 31, climb runway heading to 1200 prior to left turn to avoid 1114' antenna west of airport.

CASTROVILLE, TX

CASTROVILLE MUNI (CVB)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15OCT15 (15288) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees beginning 103' from DER, 361' left of centerline, up to 50' AGL/787' MSL.
Trees beginning 221' from DER, 347' right of centerline, up to 50' AGL/794' MSL.
Rwy 34, agriculture equipment beginning 1' from DER, 55' left of centerline, up to 15' AGL/790' MSL.
Road beginning 107' from DER, left and right of centerline, 15' AGL/789' MSL.
Trees beginning 1928' from DER, 5' right of centerline, up to 50' AGL/838' MSL.
Trees beginning 2322' from DER, 685' left of centerline, up to 50' AGL/851' MSL.
Pole 1483' from DER, 834' right of centerline, 37' AGL/816' MSL.
Pole 2255' from DER, 247' right of centerline, 52' AGL/831' MSL.
Antenna on silo 2239' from DER, 911' left of centerline, 88' AGL/870' MSL.

COLEMAN, TX

COLEMAN MUNI (COM)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 10MAR11 (11069) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 15, trees beginning 792' from DER, 67' right of centerline, up to 100' AGL/1774' MSL.
Rwy 33, cranes beginning 1010' from DER, 28' left of centerline, up to 65' AGL/1774' MSL.
Cranes beginning 2285' from DER, 13' right of centerline, up to 65' AGL/1774' MSL.

COMANCHE, TX

COMANCHE COUNTY-CITY (MKN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 30JAN20 (20030) (FAA)

DEPARTURE PROCEDURE:

Rwy 17, climb heading 173° to 2000 before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 17, building, terrain, tree, vehicle on road beginning 32' from DER, 260' right of centerline, up to 1395' MSL.
Terrain, trees, pole beginning 191' from DER, 310' left of centerline, up to 1411' MSL.
Trees, pole beginning 718' from DER, 20' left of centerline, up to 1425' MSL.
Pole, trees, building beginning 784' from DER, 25' right of centerline, up to 1419' MSL.
Trees, poles beginning 1090' from DER, 25' left of centerline, up to 1430' MSL.
Tree 1382' from DER, 280' right of centerline, 1422' MSL.
Trees, poles beginning 1451' from DER, 18' right of centerline, up to 1436' MSL.
Tree 2280' from DER, 70' right of centerline, 1438' MSL.
Tree 2291' from DER, 83' left of centerline, 1436' MSL.
Trees beginning 2334' from DER, 155' right of centerline, up to 1444' MSL.
Trees beginning 2378' from DER, 56' right of centerline, up to 1446' MSL.
Trees beginning 2379' from DER, 74' left of centerline, up to 1438' MSL.
Tree 2463' from DER, 294' right of centerline, 1448' MSL.
Trees, pole beginning 2467' from DER, 62' right of centerline, up to 1463' MSL.
Tree 2558' from DER, 19' left of centerline, 1443' MSL.
Tree 2757' from DER, 314' left of centerline, 1446' MSL.
Tree 3120' from DER, 344' left of centerline, 1461' MSL.
Trees beginning 3132' from DER, 246' left of centerline, up to 1466' MSL.

CON'T

COMANCHE, TX (CON'T)

COMANCHE COUNTY-CITY (MKN) (CON'T)

Rwy 35, tree 54' from DER, 354' left of centerline, 1406' MSL.
Tree 481' from DER, 345' right of centerline, 1404' MSL.
Trees beginning 489' from DER, 436' right of centerline, up to 1408' MSL.

CORPUS CHRISTI, TX

CORPUS CHRISTI INTL (CRP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3 26MAY16 (16147) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 400-2¾ or std. w/ min. climb of 235' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 31, Climb heading 312° to 600 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 13, vehicles on road and wind cone beginning 2' from DER, 260' right of centerline, up to 53' MSL.
Vehicles on road 69' from DER, 337' right of centerline, 54' MSL.
Rwy 18, vehicles on road beginning 301' from DER, 103' left of centerline, up to 53' MSL.
Rwy 31, vehicles on road 22' from DER, 65' right of centerline, 58' MSL.
Poles beginning 765' from DER, 616' right of centerline, up to 36' AGL/75' MSL.
Rwy 36, vehicles on road beginning 261' from DER, 444' right of centerline, up to 52' MSL.
Vehicles on road 490' from DER, 604' left of centerline, 54' MSL.
Light poles beginning 1217' from DER, 648' right of centerline, up to 31' AGL/74' MSL.
Light poles beginning 1241' from DER, 665' left of centerline, up to 31' AGL/74' MSL.
Light pole 1294' from DER, 799' right of centerline, 31' AGL/75' MSL.
Light pole 1330' from DER, 850' left of centerline, 32' AGL/75' MSL.
Refinery 1.9 NM from DER, 180' right of centerline, 318' AGL/344' MSL.
Tower 2.1 NM from DER, 3773' left of centerline, 401' AGL/423' MSL.

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

CORPUS CHRISTI, TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20AUG15 (15232)

TAKEOFF OBSTACLE NOTES:

Rwy 13L, pylon 3366' from DER, 452' left of centerline, 91' AGL/102' MSL.
Pylon 4193' from DER, 36' left of centerline, 79' AGL/104' MSL.
Pylon 3997' from DER, 688' left of centerline, 60' AGL/87' MSL.
Terrain 570' from DER, 653' right of centerline, 33' MSL.
Terrain 551' from DER, 644' right of centerline, 33' MSL.
Terrain 413' from DER, 547' left of centerline, 33' MSL.
Terrain 47' from DER, 500' left of centerline, 35' MSL.
Terrain 46' from DER, 512' left of centerline, 35' MSL.
Pylon 4518' from DER, 1117' right of centerline, 79' AGL/107' MSL.
Pylon 4675' from DER, 1696' right of centerline, 79' AGL/103' MSL.
Pylon 4346' from DER, 542' right of centerline, 79' AGL/101' MSL.
Rwy 13R, pylon 4743' from DER, 786' left of centerline, 79' AGL/104' MSL.
Terrain 443' from DER, 550' right of centerline, 33' MSL.
Terrain 380' from DER, 602' right of centerline, 33' MSL.
Terrain 247' from DER, 550' right of centerline, 33' MSL.
Terrain 190' from DER, 551' right of centerline, 33' MSL.
Terrain 427' from DER, 614' left of centerline, 34' MSL.
Terrain 384' from DER, 600' left of centerline, 34' MSL.
Pylon 5067' from DER, 368' right of centerline, 79' AGL/107' MSL.
Pylon 5224' from DER, 946' right of centerline, 79' AGL/103' MSL.
Rwy 17, pylon 4925' from DER, 381' left of centerline, 124' AGL/142' MSL.
Terrain 472' from DER, 584' left of centerline, 30' MSL.
Terrain 63' from DER, 517' right of centerline, 32' MSL.
Terrain 17' from DER, 500' right of centerline, 33' MSL.
Rwy 31L, terrain 47' from DER, 512' left of centerline, 29' MSL.
Terrain 50' from DER, 500' left of centerline, 30' MSL.
Terrain 173' from DER, 546' left of centerline, 30' MSL.
Terrain 181' from DER, 500' left of centerline, 31' MSL.
Terrain 684' from DER, 652' right of centerline, 30' MSL.
Rwy 31R, terrain 31' from DER, 500' right of centerline, 33' MSL.
Terrain 63' from DER, 517' right of centerline, 33' MSL.
Terrain 294' from DER, 500' right of centerline, 33' MSL.
Terrain 380' from DER, 602' right of centerline, 33' MSL.
Rwy 35, terrain 46' from DER, 512' left of centerline, 36' MSL.
Terrain 50' from DER, 500' left of centerline, 36' MSL.
Terrain 300' from DER, 580' left of centerline, 36' MSL.
Terrain 313' from DER, 500' left of centerline, 36' MSL.

COTULLA, TX

COTULLA-LA SALLE COUNTY (COT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 18SEP14 (14261) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning 4' from DER, left and right of centerline, up to 20' AGL/465' MSL.
Vehicles on unlit roadway, beginning 55' from DER, 507' left of centerline, up to 15' AGL/482' MSL.
Trees beginning 142' from DER, left and right of centerline, up to 20' AGL/482' MSL.
Trees beginning 622' from DER, left and right of centerline, up to 24' AGL/480' MSL.
Pole 1002' from DER, 548' left of centerline, 33' AGL/488' MSL.
Rwy 31, fence .08' from DER, 310' right of centerline, 3' AGL/476' MSL.
Trees beginning 19' from DER, left and right of centerline, up to 13' AGL/485' MSL.
Trees beginning 178' from DER, 311' right of centerline, up to 16' AGL/490' MSL.
Trees beginning 380' from DER, 386' right of centerline, up to 21' AGL/493' MSL.

DEL RIO, TX

DEL RIO INTL (DRT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09SEP99 (99252) (FAA)

DEPARTURE PROCEDURE:

Rwy 13, climb to 1500 prior to left turn.

DEVINE, TX

DEVINE MUNI (23R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15DEC11 (11349) (FAA)

TAKEOFF MINIMUMS:

Rwy 35, 300-1 or std. w/min. climb of 265' per NM to 900.

TAKEOFF OBSTACLE NOTES:

Rwy 17, trees beginning 281' from DER, 383' left of centerline, up to 50' AGL/759' MSL.
Trees beginning 1145' from DER, 233' left of centerline, up to 50' AGL/779' MSL.
Rwy 35, trees beginning 4761' from DER, 128' right of centerline, up to 50' AGL/839' MSL.

EAGLE PASS, TX

MAVERICK COUNTY MEMORIAL INTL (5T9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25SEP08 (08269) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, vehicle on road 171' from DER, 393' right of centerline, 15' AGL/894' MSL.

EDINBURG, TX

SOUTH TEXAS INTL AT EDINBURG (EBG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 28SEP06 (06271) (FAA)

TAKEOFF MINIMUMS:

CAUTION: Unmarked balloon and cable to 15000' MSL in R-6317.
Rwy 14, 276/37.9 NM.
Rwy 32, 276/38.5 NM.

TAKEOFF OBSTACLE NOTES:

Rwy 14, tree 1109' from DER, 525' right of centerline, 19' AGL/108' MSL.
Terrain 20' from DER, 312' right of centerline, 0' AGL/74' MSL.
Rwy 32, multiple poles beginning 831' from DER, 53' right of centerline, up to 32' AGL/111' MSL.
Road 640' from DER, 671' right of centerline, 17' AGL/96' MSL.

EL PASO, TX

EL PASO INTL (ELP)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 8 20AUG15 (15232) (FAA)

TAKEOFF MINIMUMS:

Rwys 8L, 26R, NA - Environmental.

Rwy 26L, std. w/min. climb of 490' per NM to 6300.

DEPARTURE PROCEDURE:

Rwy 4, 8R, climbing right turn heading 120° and ELP R-150 to 9000, then proceed on course.

Rwy 22, 26L, climbing left turn heading 120° and ELP R-150 to 9000, then proceed on course.

TAKEOFF OBSTACLE NOTES:

Rwy 4, light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.

Rwy 26L, light poles beginning 1248' from DER, 614' left of centerline, up to 60' AGL/3983' MSL.

Windsock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL.

Rwy 22, utility pedestal 30' from DER, 205' right of centerline, 4' AGL/3918' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

ORIG 05NOV20 (20310) (FAA)

Rwy 4, heading as assigned by ATC; requires min. climb of 491' per NM to 8200.

Rwy 8R, heading as assigned by ATC.

Rwy 22, heading as assigned by ATC; requires min. climb of 272' per NM to 6800.

Rwy 26L, heading as assigned by ATC; requires min. climb of 391' per NM to 5800.

FALFURRIAS, TX

BROOKS COUNTY (BKS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 07MAY09 (09127) (FAA)

TAKEOFF MINIMUMS:

Rwy 32, 400-2¼ or std. w/ min. climb of 249' per NM to 600.

Rwy 35, std. w/ min. climb of 250' per NM to 800, or 500-3 w/ min. climb of 242' per NM to 800, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 35, for climb in visual conditions: cross Brooks County Airport at or above 900 MSL before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 14, vehicle on road, 29' from DER, 499' left of centerline, 15' AGL/129' MSL.

Trees beginning 149' from DER, 523' left of centerline, up to 40' AGL/154' MSL.

Trees beginning at DER, 415' right of centerline, up to 40' AGL/149' MSL.

Rwy 17, vehicle on road, at DER, 364' left of centerline, 15' AGL/119' MSL.

Trees beginning 15' from DER, 331' right of centerline, up to 40' AGL/149' MSL.

Trees beginning 165' from DER, 126' left of centerline, up to 17' AGL/129' MSL.

Rwy 32, road and trees beginning 587' from DER, 35' right of centerline, up to 40' AGL/149' MSL.

Tower 1.9 NM from DER, 987' left of centerline, 298' AGL/418' MSL.

Rwy 35, vehicle on road, at DER, 360' right of centerline, 15' AGL/118' MSL.

Tree 1010' from DER, 278' right of centerline, 29' AGL/138' MSL.

Tower 2.6 NM from DER, 426' right of centerline, 414' AGL/539' MSL.

FORT HOOD, TX

ROBERT GRAY AAF (GRK)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

TAKEOFF OBSTACLE NOTES:

Rwy 33, pole 974' from DER, 746' left of centerline, 35' AGL/1050' MSL.

Pole 1121' from DER, 746' left of centerline, 33' AGL/1048' MSL.

FORT STOCKTON, TX
FORT STOCKTON-PECOS COUNTY (FST)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 27AUG09 (09239) (FAA)

TAKEOFF MINIMUMS:
Rwys 7, 11, 16, 25, 29, NA-Environmental.
Rwy 21, 300-1 or std. w/ min. climb of 280' per NM to 3600.

DEPARTURE PROCEDURE:
Rwy 21, climb heading 208° to 3600 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 12, tree 899' from DER, 310' right of centerline, 39' AGL/3049' MSL.
Rwy 21, brush beginning 110' from DER, 222' right of centerline, up to 20' AGL/3159' MSL.
Terrain beginning 124' from DER, 77' right of centerline, up to 3173' MSL.
Terrain beginning 56' from DER, 132' left of centerline, up to 3111' MSL.
Bush 236' from DER, 30' left of centerline, 6' AGL/3013' MSL.
Vehicle on road, 2017' from DER, 973' left of centerline, 17' AGL/3066' MSL.
Rwy 30, trees beginning 64' from DER, 354' left of centerline, up to 6' AGL/2995' MSL.

FREDERICKSBURG, TX
GILLESPIE COUNTY (T82)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 25APR19 (19115) (FAA)

DEPARTURE PROCEDURE:
Rwy 14, climb heading 141° to 2400 before turning right.
Rwy 32, climb heading 321° to 2400 before proceeding on course.

TAKEOFF OBSTACLE NOTES:
Rwy 14, trees beginning 32' from DER, 310' right of centerline, up to 1685' MSL.
Pole 202' from DER, 515' left of centerline, 30' AGL/1708' MSL.
Tree 325' from DER, 298' right of centerline, 1688' MSL.
Trees beginning 336' from DER, 439' left of centerline, up to 1715' MSL.
Trees beginning 437' from DER, 297' left of centerline, up to 1718' MSL.
Trees beginning 517' from DER, 323' left of centerline, up to 1723' MSL.
Tree 531' from DER, 328' right of centerline, 1694' MSL.
Rwy 32, building, trees beginning 9' from DER, 22' right of centerline, up to 31' AGL/1719' MSL.
Trees beginning 84' from DER, 7' left of centerline, up to 1726' MSL.
Tree 943' from DER, 490' right of centerline, 1720' MSL.
Pole 1028' from DER, 713' right of centerline, 45' AGL/1733' MSL.
Trees, poles beginning 1038' from DER, 113' right of centerline, up to 1735' MSL.
Trees beginning 1108' from DER, 117' left of centerline, up to 1731' MSL.
Trees, poles beginning 1201' from DER, 39' right of centerline, up to 1737' MSL.
Tree 1883' from DER, 432' right of centerline, 1742' MSL.

GEORGE WEST, TX
LIVE OAK COUNTY (8T6)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 23JUN16 (16175) (FAA)

TAKEOFF MINIMUMS:
Rwy 31, 700-3 or std. with a min. climb of 230' per NM to 1000.

DEPARTURE PROCEDURE:
Rwy 13, climb runway heading to 600 before turning right.

TAKEOFF OBSTACLE NOTES:
Rwy 13, Trees and poles beginning 20' from DER, left and right of centerline, up to 37' AGL/157' MSL.
Vehicles on road starting 200' from DER, 431' left of centerline, up to 15' AGL/138' MSL.
Trees 815' from DER, 613' right of centerline, 48' AGL/168' MSL.
Rwy 31, Building, trees and poles beginning 57' from DER, 484' right of centerline, up to 40' AGL/163' MSL.
Vehicles on road starting 85' from DER, left and right of centerline, up to 15' AGL/143' MSL.
Trees and poles beginning 365' from DER, 401' left of centerline, 50' AGL/180' MSL.

GEORGETOWN, TX
GEORGETOWN MUNI (GTU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:
Rwy 18, 200-1¼ or std. w/min. climb of 250' per NM to 1000.

TAKEOFF OBSTACLE NOTES:
Rwy 11, tree 11' from DER, 401' right of centerline, 786' MSL.
Poles and trees beginning 79' from DER, 136' right of centerline, up to 39' AGL/796' MSL.
Building 183' from DER, 477' left of centerline, 776' MSL.
Poles and buildings beginning 251' from DER, 424' left of centerline, up to 789' MSL.
Trees beginning 489' from DER, 226' left of centerline, up to 791' MSL.
Transmission towers, catenary, and telephone line beginning 2019' from DER, 27' left of centerline, up to 97' AGL/837' MSL.
Transmission tower and telephone line beginning 2271' from DER, 900' right of centerline, up to 826' MSL

CON'T

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

GEORGETOWN, TX (CON'T)

GEORGETOWN MUNI (GTU) (CON'T)

Rwy 11 (CON'T), tower 5361' from DER, 515' right of centerline, 179' AGL/894' MSL.
Rwy 18, REIL, vehicles on road, and tree beginning 30' from DER, 124' left of centerline, up to 784' MSL.
Tree 148' from DER, 465' left of centerline, 33' AGL/787' MSL.
Trees beginning 175' from DER, 444' right of centerline, up to 779' MSL.
Obstruction light on pole, poles, and trees beginning 300' from DER, 38' left of centerline, up to 792' MSL.
Obstruction light on pole, poles, and trees beginning 351' from DER, 19' right of centerline, up to 792' MSL.
Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL.
Antenna on water tower 1 NM from DER, 1158' right of centerline, 163' AGL/932' MSL.
Rwy 29, bushes beginning 10' from DER, 117' left of centerline, up to 792' MSL.
Terrain 15' from DER, 91' right of centerline, 790' MSL.
Terrain 15' from DER, 191' right of centerline, 792' MSL.
Trees beginning 89' from DER, 345' left of centerline, up to 806' MSL.
Bush and tree beginning 103' from DER, 351' right of centerline, up to 23' AGL/819' MSL.
Tree 205' from DER, 403' left of centerline, 811' MSL.
Tree 260' from DER, 562' right of centerline, 824' MSL.
Trees beginning 296' from DER, 291' left of centerline, up to 819' MSL.
Trees beginning 331' from DER, 162' right of centerline, up to 828' MSL.
Trees beginning 544' from DER, 22' right of centerline, up to 833' MSL.
Trees beginning 549' from DER, 78' left of centerline, up to 821' MSL.
Pole 766' from DER, 524' right of centerline, 837' MSL.
Poles and trees beginning 787' from DER, 48' left of centerline, up to 826' MSL.
Poles and trees beginning 800' from DER, 56' right of centerline, up to 840' MSL.
Tree 1902' from DER, 923' right of centerline, 841' MSL.
Trees beginning 1958' from DER, 563' right of centerline, up to 844' MSL.
Rwy 36, building 70' from DER, 513' right of centerline, 789' MSL.
Antenna 104' from DER, 492' right of centerline, 810' MSL.
Terrain 115' from DER, 345' left of centerline, 789' MSL.
Trees beginning 143' from DER, 378' left of centerline, up to 18' AGL/810' MSL.
Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL.
Trees beginning 284' from DER, 424' right of centerline, up to 818' MSL.
Tree 322' from DER, 360' left of centerline, 831' MSL.
Pole and trees beginning 392' from DER, 301' left of centerline, up to 837' MSL.
Tower and trees beginning 510' from DER, 429' right of centerline, up to 45' AGL/823' MSL.

HAMILTON, TX

HAMILTON MUNI (MNZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17DEC09 (09351) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 18, tree 689' from DER, 211' left of centerline, 40' AGL/1346' MSL.
Vehicle on North-South road 849' from DER, on extended centerline, 15' AGL/1321' MSL.
Rwy 36, trees beginning 621' from DER, 186' left of centerline, 40' AGL/1359' MSL.
Trees 879' from DER, 87' right of centerline, 40' AGL/1359' MSL.

HARLINGEN, TX

VALLEY INTL (HRL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 15AUG19 (19227) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, sign 29' from DER, 251' left of centerline, 6' AGL/39' MSL.
Pole 1117' from DER, 550' left of centerline, 34' AGL/67' MSL.
Rwy 17L, NAVAID 9' from DER, on centerline, 3' AGL/37' MSL.
Vehicle on road 410' from DER, 519' left of centerline, 50' MSL.
Vehicle on road 415' from DER, 1' right of centerline, 51' MSL.
Rwy 17R, fence 23' from DER, 498' right of centerline, 9' AGL/41' MSL.
Rwy 31, NAVAID 52' from DER, 199' left of centerline, 4' AGL/37' MSL.
Pole 752' from DER, 540' left of centerline, up to 34' AGL/66' MSL.
Tree 981' from DER, 461' left of centerline, 69' MSL.
Tree 1055' from DER, 517' left of centerline, 72' MSL.
Rwy 35L, sign 23' from DER, 250' left of centerline, 3' AGL/36' MSL.
Rwy 35R, NAVAID 40' from DER, 149' left of centerline, 3' AGL/36' MSL.
NAVAID 40' from DER, 148' right of centerline, 3' AGL/36' MSL.
NAVAID 40' from DER, 202' left of centerline, 4' AGL/37' MSL.

HEBBRONVILLE, TX
JIM HOGG COUNTY (HBV)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 29JUL10 (10210) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 7' from DER, 59' left of centerline, up to 25' AGL/694' MSL.
Rwy 31, trees beginning 112' from DER, 274' right of centerline to 438' left of centerline, up to 12' AGL/681' MSL.
Pole 801' from DER, 374' right of centerline, up to 26' AGL/685' MSL.
NDB 275' from DER, 495' left of centerline, up to 33' AGL/692' MSL.
Vehicle on road 399' from DER, left and right of centerline, up to 15' AGL/674' MSL.

HONDO, TX
SOUTH TEXAS RGNL AT HONDO (HDO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 28JUL11 (11209) (FAA)
TAKEOFF MINIMUMS:
Rwys 4, 22, NA-Environmental.
TAKEOFF OBSTACLE NOTES:
Rwy 8, trees 407' from DER, 243' left of centerline, 30' AGL/959' MSL.
Rwy 17L, vehicles on road 488' from DER, 131' right of centerline, 15' AGL/925' MSL.
Rwy 17R, sand storage domes beginning 3653' from DER, 838' right of centerline, up to 115' AGL/1023' MSL.
Rwy 35R, vehicles on road 161' from DER, 172' left of centerline, 15' AGL/943' MSL.
Multiple trees beginning 636' from DER, 354' right of centerline, up to 26' AGL/955' MSL.
Vehicles on road beginning 490' from DER, 122' right of centerline, 15' AGL/943' MSL.
Rwy 26, trees 1022' from DER, 241' right of centerline, 30' AGL/959' MSL.
Rwy 13, trees 726' from DER, 250' left of centerline, 30' AGL/939' MSL.

HOOD AHP (KHLR)
FORT HOOD (KILLEEN), TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 30JAN20 (20030)
TAKEOFF MINIMUMS:
Rwy 16, 34, for Copter use only.

JUNCTION, TX
KIMBLE COUNTY (JCT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 05MAY11 (11125) (FAA)
TAKEOFF MINIMUMS:
Rwys 8, 26, NA - Environmental.
Rwy17, std. w/min. climb of 340' per NM to 2300 or 1300-3 for climb in visual conditions.
Rwy 35, std. w/min. climb of 565' per NM to 2200 or 400-3 with minimum climb of 230' per NM to 2500, or 1300-3 for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 17, climb heading 172° to 2800 before proceeding on course, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.
Rwy 35, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 17, trees beginning abeam DER, 297' right of centerline, up to 50' AGL/1749' MSL.
Power lines beginning 229' from DER, 370' right of centerline, up to 75' AGL/1744' MSL.
Vehicles on road beginning 390' from DER, left and right of centerline, up to 17' AGL/1716' MSL.
Trees beginning 1548' from DER, left and right of centerline, up to 50' AGL/2049' MSL.
Radio towers beginning 4568' from DER, 736' left of centerline, up to 169' AGL/1854' MSL.
Rwy 35, power lines beginning abeam DER, 545' left of centerline, up to 75' AGL/1854' MSL.
Power lines abeam DER, 561' right of centerline, up to 75' AGL/1854' MSL.
Vehicles on road beginning 1121' from DER, left and right of centerline, up to 15' AGL/1794' MSL.
Trees beginning 1254' from DER, left and right of centerline, up to 50' AGL/2129' MSL.

KELLY FLD (KSKF)
SAN ANTONIO, TX
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25MAY17 (17145)
TAKEOFF OBSTACLE NOTES:
Rwy 34, trees 50' AGL/743' MSL, 1763' from DER, 919' left of cntrln.

KENEDY, TX

KENEDY RGNL (2R9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 15AUG19 (19227) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, 300-1¾ or std. w/min. climb of 310' per NM to 600.

Rwy 34, 400-2¼ or std. w/min. climb of 675' per NM to 600.

DEPARTURE PROCEDURE:

Rwy 34, climb heading 344° to 800 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 16, fence at DER, 293' right of centerline, 8' AGL/277' MSL.
Fence at DER, 291' left of centerline, 8' AGL/279' MSL.
Trees beginning 11' from DER, 268' right of centerline, up to 100' AGL/379' MSL.
Poles beginning 965' from DER, 352' left of centerline, up to 80' AGL/364' MSL.
Tree 1771' from DER, 937' right of centerline, 100' AGL/389' MSL.
Tree 2752' from DER, 993' right of centerline, 100' AGL/399' MSL.
Tree 3234' from DER, 1137' left of centerline, 100' AGL/409' MSL.
Tree 3408' from DER, 982' right of centerline, 100' AGL/419' MSL.
Tree 4050' from DER, 808' right of centerline, 100' AGL/429' MSL.
Tree 4523' from DER, 348' right of centerline, 100' AGL/439' MSL.
Tree 4854' from DER, 200' right of centerline, 100' AGL/449' MSL.
Tree 5091' from DER, 147' right of centerline, 100' AGL/459' MSL.
Trees beginning 5351' from DER, 18' right of centerline, up to 100' AGL/469' MSL.
Tree 5684' from DER, 983' right of centerline, 100' AGL/479' MSL.
Tree 1 NM from DER, 1953' right of centerline, 100' AGL/489' MSL.
Tree 1.1 NM from DER, 2105' right of centerline, 100' AGL/499' MSL.
Tree 1.5 NM from DER, 1603' right of centerline, 100' AGL/507' MSL.

Rwy 34, tree 51' from DER, 180' left of centerline, 100' AGL/399' MSL.
Fence 169' from DER, crossing extended runway centerline, 8' AGL/295' MSL.
Tower 1031' from DER, 2808' left of centerline, 238' AGL/678' MSL.
Tree 1457' from DER, 761' left of centerline, 100' AGL/419' MSL.
Tree 1512' from DER, 8' right of centerline, 100' AGL/409' MSL.
Tree 1615' from DER, 859' left of centerline, 100' AGL/429' MSL.
Tree 1779' from DER, 861' left of centerline, 100' AGL/439' MSL.
Tree 1902' from DER, 847' left of centerline, 100' AGL/449' MSL.
Tree 2521' from DER, 950' right of centerline, 100' AGL/429' MSL.
Tree 3594' from DER, 1437' right of centerline, 100' AGL/459' MSL.
Tree 4395' from DER, 107' left of centerline, 100' AGL/469' MSL.
Tree 4834' from DER, 178' left of centerline, 100' AGL/479' MSL.
Tree 5227' from DER, 352' left of centerline, 100' AGL/489' MSL.
Tree 5720' from DER, 153' left of centerline, 100' AGL/499' MSL.
Trees beginning 1 NM from DER, 24' left of centerline, up to 100' AGL/519' MSL.
Trees beginning 1.1 NM from DER, 4' right of centerline, up to 100' AGL/529' MSL.
Tower, trees beginning 1.4 NM from DER, 86' left of centerline, up to 238' AGL/628' MSL.

KERRVILLE, TX

KERRVILLE MUNI /LOUIS SCHREINER FIELD (ERV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 03JAN19 (19003) (FAA)

TAKEOFF MINIMUMS:

Rwy 3, 500-3 w/min. climb of 390' per NM to 2600, or std. w/min. climb of 455' per NM to 2400 or 1300-3 for VCOA.

Rwy 30, std. w/min. climb of 215' per NM to 2300 or 1300-3 for VCOA.

VCOA:

Rwys 3, 30, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross Kerrville Muni/Louis Schreiner Field at or above 2800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, tree 23' from DER, 465' left of centerline, 41' AGL/1631' MSL.
Terrain 25' from DER, 401' right of centerline, 1635' MSL.
Terrain 36' from DER, 505' right of centerline, 1647' MSL.
Vehicles on road, terrain beginning 45' from DER, 310' right of centerline, up to 1649' MSL.
Trees beginning 239' from DER, 445' left of centerline, up to 47' AGL/1640' MSL.
Vehicle on road, terrain beginning 296' from DER, 352' right of centerline, up to 1650' MSL.
Trees beginning 436' from DER, 344' left of centerline, up to 66' AGL/1664' MSL.
Vehicles on road, terrain beginning 496' from DER, 311' right of centerline, up to 1652' MSL.
Trees, vehicles on road beginning 853' from DER, 117' right of centerline, up to 38' AGL/1673' MSL.
Trees beginning 895' from DER, 46' right of centerline, up to 31' AGL/1675' MSL.
Trees beginning 985' from DER, 96' right of centerline, up to 26' AGL/1678' MSL.
Trees beginning 1030' from DER, 198' right of centerline, up to 41' AGL/1684' MSL.
Poles, vehicles on road, transmission line, trees beginning 1176' from DER, 11' right of centerline, up to 55' AGL/1715' MSL.
Pole 1434' from DER, 418' left of centerline, 58' AGL/1672' MSL.
Transmission line, pole beginning 1440' from DER, 414' left of centerline, up to 59' AGL/1674' MSL.
Pole 1523' from DER, 772' left of centerline, 63' AGL/1698' MSL.

CON'T

KERRVILLE, TX (CON'T)

KERRVILLE MUNI /LOUIS SCHREINER FIELD (ERV) (CON'T)

Rwy 3 (CON'T), transmission line, trees, windmill, pole, vehicle on road beginning 1525' from DER, 28' left of centerline, up to 64' AGL/1705' MSL.
Trees, vehicles on road, fence beginning 2019' from DER, 37' right of centerline, up to 33' AGL/1742' MSL.
Trees, terrain beginning 2581' from DER, 576' right of centerline, up to 1743' MSL.
Trees beginning 2717' from DER, 540' left of centerline, up to 29' AGL/1708' MSL.
Trees, fence beginning 2978' from DER, 804' left of centerline, up to 37' AGL/1733' MSL.
Trees beginning 3253' from DER, 920' left of centerline, up to 30' AGL/1738' MSL.
Trees, pole beginning 3636' from DER, 1190' left of centerline, up to 33' AGL/1742' MSL.
Tree 3905' from DER, 1490' right of centerline, 30' AGL/1751' MSL.
Trees beginning 4069' from DER, 920' right of centerline, up to 16' AGL/1753' MSL.
Trees beginning 4108' from DER, 1199' right of centerline, up to 27' AGL/1773' MSL.
Tree 4291' from DER, 1344' right of centerline, 23' AGL/1776' MSL.
Trees beginning 4312' from DER, 1120' right of centerline, up to 23' AGL/1796' MSL.
Fence, tree beginning 4440' from DER, 1207' right of centerline, up to 4' AGL/1824' MSL.
Fence, tree beginning 4504' from DER, 1136' right of centerline, up to 6' AGL/1832' MSL.
Terrain, fence, tree beginning 4610' from DER, 1475' right of centerline, up to 1869' MSL.
Trees, fence, terrain beginning 4656' from DER, 347' right of centerline, up to 14' AGL/1879' MSL.
Poles beginning 4892' from DER, 1415' left of centerline, up to 40' AGL/1753' MSL.
Pole, trees beginning 5066' from DER, 1275' left of centerline, up to 39' AGL/1758' MSL.
Pole, tree beginning 5204' from DER, 1373' left of centerline, up to 37' AGL/1760' MSL.
Tree 5259' from DER, 1498' left of centerline, 34' AGL/1764' MSL.
Trees beginning 5329' from DER, 1203' left of centerline, up to 41' AGL/1769' MSL.
Tree 5365' from DER, 1718' left of centerline, 33' AGL/1772' MSL.
Trees, vehicle on road, poles beginning 5366' from DER, 1159' left of centerline, up to 32' AGL/1773' MSL.
Tree 5569' from DER, 1423' left of centerline, 34' AGL/1775' MSL.
Pole 5579' from DER, 1525' left of centerline, 28' AGL/1778' MSL.
Pole beginning 5639' from DER, 1125' left of centerline, up to 27' AGL/1800' MSL.
Pole, terrain, trees beginning 5667' from DER, 1228' left of centerline, up to 36' AGL/1809' MSL.
Tree 5885' from DER, 1970' left of centerline, 28' AGL/1850' MSL.
Trees, terrain beginning 5931' from DER, 1356' left of centerline, up to 26' AGL/1874' MSL.
Tree 6068' from DER, 1968' left of centerline, 21' AGL/1890' MSL.
Trees beginning 1 NM from DER, 1442' left of centerline, up to 21' AGL/1892' MSL.
Tree, vehicle on road, terrain, fence beginning 1 NM from DER, 1349' left of centerline, up to 1924' MSL.
Vehicle on road, tree beginning 1 NM from DER, 914' right of centerline, up to 1902' MSL.
Vehicles on road beginning 1 NM from DER, 1170' right of centerline, up to 1903' MSL.
Trees beginning 1 NM from DER, 991' right of centerline, up to 22' AGL/1921' MSL.
Tree, vehicles on road beginning 1.1 NM from DER, 735' right of centerline, up to 29' AGL/1923' MSL.
Tree, terrain beginning 1.1 NM from DER, 524' right of centerline, up to 1927' MSL.
Trees, vehicles on road, terrain, poles beginning 1.1 NM from DER, 416' right of centerline, up to 36' AGL/1929' MSL.
Building, trees, vehicle on road beginning 1.2 NM from DER, 1213' right of centerline, up to 32' AGL/1931' MSL.
Trees, vehicles on road, poles, building, terrain, tank beginning 1.2 NM from DER, on and right of centerline, up to 35' AGL/1934' MSL.
Fence, tree beginning 1.3 NM from DER, 1576' left of centerline, up to 6' AGL/1925' MSL.
Building 1.3 NM from DER, 2597' left of centerline, 14' AGL/1934' MSL.
Tree 1.3 NM from DER, 2558' left of centerline, 23' AGL/1943' MSL.
Building, trees, poles, vehicles on road beginning 1.3 NM from DER, 1543' left of centerline, up to 41' AGL/1962' MSL.
Buildings, poles, vehicles on road, trees, fence, tank, terrain beginning 1.3 NM from DER, 18' left of centerline, up to 32' AGL/1963' MSL.
Trees, pole, vehicles on road beginning 1.4 NM from DER, 160' right of centerline, up to 31' AGL/1941' MSL.
Trees, vehicles on road, fence beginning 1.4 NM from DER, 233' right of centerline, up to 25' AGL/1947' MSL.
Trees, poles, vehicles on road beginning 1.5 NM from DER, 196' right of centerline, up to 25' AGL/1950' MSL.
Poles, trees, vehicles on road, fence, terrain beginning 1.5 NM from DER, 179' right of centerline, up to 44' AGL/1961' MSL.
Trees, vehicles on road, terrain beginning 1.6 NM from DER, 37' left of centerline, up to 25' AGL/1967' MSL.
Trees, vehicles on road, pole beginning 1.7 NM from DER, 133' right of centerline, up to 28' AGL/1962' MSL.
Vehicle on road, tree beginning 1.7 NM from DER, 1457' right of centerline, up to 1963' MSL.
Trees, vehicles on road beginning 1.7 NM from DER, 1588' left of centerline, up to 18' AGL/1968' MSL.
Trees, fence, vehicles on road beginning 1.7 NM from DER, 15' right of centerline, up to 22' AGL/1978' MSL.
Poles, trees, vehicles on road, terrain, building beginning 1.7 NM from DER, 196' right of centerline, up to 36' AGL/1982' MSL.
Vehicles on road, tree beginning 1.7 NM from DER, 2149' left of centerline, up to 1969' MSL.
Poles, trees, vehicles on road beginning 1.7 NM from DER, 906' left of centerline, up to 39' AGL/1976' MSL.
Pole, trees, vehicles on road beginning 1.7 NM from DER, 76' right of centerline, up to 45' AGL/1994' MSL.
Pole, tree, vehicle on road, terrain beginning 1.7 NM from DER, 17' left of centerline, up to 40' AGL/1986' MSL.
Tree, vehicle on road, tank beginning 1.8 NM from DER, 271' right of centerline, up to 36' AGL/2000' MSL.
Trees beginning 1.8 NM from DER, 88' right of centerline, up to 27' AGL/2010' MSL.
Poles, fence, buildings, trees, vehicles on road, terrain beginning 1.8 NM from DER, on centerline, up to 43' AGL/2022' MSL.
Vehicles on road, trees, pole beginning 1.8 NM from DER, 84' left of centerline, up to 1989' MSL.
Trees, poles, vehicles on road, building, terrain beginning 1.8 NM from DER, 173' left of centerline, up to 44' AGL/2003' MSL.
Tree, terrain, buildings, vehicles on road, pole beginning 1.9 NM from DER, 267' left of centerline, up to 34' AGL/2025' MSL.
Windmill, buildings, trees, terrain, vehicles on road, poles, tank, transmission line beginning 1.9 NM from DER, 34' left of centerline, up to 52' AGL/2044' MSL.
CON'T

KERRVILLE, TX (CON'T)

KERRVILLE MUNI /LOUIS SCHREINER FIELD (ERV) (CON'T)

Rwy 3 (CON'T), transmission line, tree beginning 2.4 NM from DER, 1351' left of centerline, up to 116' AGL/2077' MSL.
Transmission lines, trees beginning 2.4 NM from DER, 524' left of centerline, up to 108' AGL/2078' MSL.
Transmission lines 2.5 NM from DER, 866' right of centerline, 103' AGL/2042' MSL.
Rwy 12, terrain beginning 76' from DER, 189' left of centerline, up to 1593' MSL.
Tree 289' from DER, 448' right of centerline, 32' AGL/1605' MSL.
Vehicles on road beginning 517' from DER, 617' left of centerline, up to 1608' MSL.
Tree 625' from DER, 442' right of centerline, 33' AGL/1607' MSL.
Rwy 21, fence, terrain beginning 1' from DER, 145' right of centerline, up to 1583' MSL.
Vehicles on road, sign, terrain beginning 13' from DER, 125' left of centerline, up to 1576' MSL.
Pole 838' from DER, 593' right of centerline, 35' AGL/1595' MSL.
Pole, trees beginning 893' from DER, 422' right of centerline, up to 41' AGL/1602' MSL.
Trees beginning 975' from DER, 277' right of centerline, up to 54' AGL/1608' MSL.
Trees beginning 1291' from DER, 284' right of centerline, up to 80' AGL/1610' MSL.
Tree 1439' from DER, 250' right of centerline, 89' AGL/1619' MSL.
Antenna 2904' from DER, 870' right of centerline, 102' AGL/1655' MSL.
Tree 4950' from DER, 1649' right of centerline, 48' AGL/1704' MSL.
Tree, building beginning 4963' from DER, 1520' right of centerline, up to 50' AGL/1710' MSL.
Rwy 30, vehicle on road 1' from DER, 477' left of centerline, 1577' MSL.
Tree 190' from DER, 493' left of centerline, 28' AGL/1584' MSL.
Tree 210' from DER, 514' left of centerline, 41' AGL/1592' MSL.
Pole, tree, building, lighting beginning 244' from DER, 208' left of centerline, up to 33' AGL/1594' MSL.
Fence beginning 324' from DER, 330' right of centerline, up to 11' AGL/1582' MSL.
Vehicles on road, fence beginning 329' from DER, 271' right of centerline, up to 1592' MSL.
Tree 404' from DER, 521' right of centerline, 35' AGL/1610' MSL.
Trees, poles beginning 407' from DER, 412' left of centerline, up to 51' AGL/1598' MSL.
Poles, building, trees beginning 443' from DER, 32' right of centerline, up to 39' AGL/1615' MSL.
Tree 599' from DER, 500' left of centerline, 51' AGL/1605' MSL.
Trees beginning 621' from DER, 19' left of centerline, up to 51' AGL/1606' MSL.
Trees beginning 874' from DER, 104' left of centerline, up to 83' AGL/1614' MSL.
Tree 1748' from DER, 937' left of centerline, 93' AGL/1619' MSL.

KILLEEN, TX

SKYLARK FIELD (ILE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15JAN09 (09015) (FAA)

DEPARTURE PROCEDURE:

Rwy 19, climb heading 190° to 1900 before turning east.

TAKEOFF OBSTACLE NOTES:

Rwy 1, multiple poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL.
Tree, 973' from DER, 100' left of centerline, 28' AGL/876' MSL.
Building, 486' from DER, 9' right of centerline, 13' AGL/854' MSL.
Antenna, 351' from DER, 277' right of centerline, 11' AGL/852' MSL.
Rwy 19, pole, 288' from DER, 588' right of centerline, 32' AGL/880' MSL.
Building, 102' from DER, 411' right of centerline, 8' AGL/856' MSL.
Vehicle on road, 232' from DER, 499' right of centerline, 15' AGL/867' MSL.
Pole, 256' from DER, 497' left of centerline, 32' AGL/873' MSL.
Building, 276' from DER, 342' left of centerline, 11' AGL/859' MSL.
Building, 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

KINGSVILLE NAS (KNQI)

KINGSVILLE, TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 16JUL20 (20198)

TAKEOFF OBSTACLE NOTES:

Rwy 13R, terrain 0' from DER, 500' right of cntrln, 0' AGL/45' MSL.
Rwy 17L, terrain 0' from DER, 500' left of cntrln, 0' AGL/56' MSL.
Terrain 328' from DER, 500' left of cntrln, 0' AGL/59' MSL.
Rwy 17R, tower 559' from DER, 1' left of cntrln, 5' AGL/56' MSL.
Terrain 0' from DER, 500' right of cntrln, 0' AGL/60' MSL.
Terrain 281' from DER, 500' right of cntrln, 0' AGL/60' MSL.
Rwy 31L, terrain 0' from DER, 500' left of cntrln, 0' AGL/52' MSL.

KINGSVILLE, TX
KLEBERG COUNTY (IKG)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 29JUL10 (10210) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, trees beginning 528' from DER, 515' right of centerline, up to 35' AGL/154' MSL.
Trees beginning 775' from DER, 554' left of centerline, up to 35' AGL/159' MSL.
Rwy 31, trees beginning 184' from DER, 358' right of centerline, up to 28' AGL/153' MSL.

LAGO VISTA, TX
LAGO VISTA TX-RUSTY ALLEN (RYW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 17AUG17 (17229) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 15, building 4' from DER, 157' right of centerline, 25' AGL/1225' MSL.
Building and trees beginning 18' from DER, 248' left of centerline, up to 1232' MSL.
Rwy 33, trees beginning 14' from DER, 158' right of centerline, up to 1258' MSL.
Trees beginning 44' from DER, 144' left of centerline, up to 1257' MSL.
Trees beginning 173' from DER, 315' left of centerline, up to 1262' MSL.
Trees beginning 173' from DER, 235' right of centerline, up to 1259' MSL.
Trees beginning 494' from DER, 224' right of centerline, up to 1269' MSL.
Trees beginning 624' from DER, 274' left of centerline, up to 1270' MSL.
Trees beginning 743' from DER, 159' left of centerline, up to 1273' MSL.
Tree 1430' from DER, 122' right of centerline, 1270' MSL.
Tree 1612' from DER, 132' left of centerline, 1274' MSL.

LAKEWAY, TX
LAKEWAY AIRPARK (3R9)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 3 05MAR15 (15064) (FAA)
TAKEOFF MINIMUMS:
Rwy 16, 500-2¾ or std. w/min. climb of 265' per NM to 1500.
DEPARTURE PROCEDURE:
Rwy 16, climb heading 165° to 1700 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 16, trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.
Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.
Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.
Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.
Power lines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.
Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.
Rwy 34, trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.
Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.
Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

LAMPASAS, TX
LAMPASAS (LZZ)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 17DEC09 (09351) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 16, building 39' from DER, 374' left of centerline, 20' AGL/1189' MSL.
Trees beginning 795' from DER, 217' right of centerline, up to 30' AGL/1189' MSL.
Rwy 34, trees beginning 657' from DER, 147' left of centerline, up to 30' AGL/1249' MSL.

LAREDO, TX

LAREDO INTL (LRD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4B 08NOV18 (18312) (FAA)

DEPARTURE PROCEDURE:

Rwy 14, climb heading 142° to 1000 before turning right.
Rwy 18L, climb heading 163° to 1200 before turning right.
Rwy 18R, climb heading 163° to 1300 before turning right.
Rwy 32, climb heading 322° to 1200 before turning left.
Rwys 36L, 36R, climb heading 358° to 1000 before turning left.

TAKEOFF OBSTACLE NOTES:

Rwy 14, trees beginning 135' from DER, 298' left of centerline, up to 59' AGL/519' MSL.
Sign 226' from DER, 244' left of centerline, 14' AGL/474' MSL.
Rwy 18L, terrain beginning 48' from DER, 333' right of centerline, up to 478' MSL.
Rwy 18R, terrain beginning 4' from DER, 219' right of centerline, up to 489' MSL.
Light poles beginning 894' from DER, 344' right of centerline, up to 41' AGL/511' MSL.
Rwy 32, aircraft on taxiway beginning 50' from DER, 367' left of centerline, up to 75' AGL/584' MSL.
Trees beginning 768' from DER, 584' left of centerline, up to 59' AGL/559' MSL.
Trees beginning 88' from DER, 275' right of centerline, up to 59' AGL/559' MSL.
Rwy 36L, MALSR 5' from DER, on centerline, 5' AGL/505' MSL.
NAVAID 10' from DER, on centerline, 5' AGL/505' MSL.
Antenna on building 81' from DER, 404' left of centerline, 30' AGL/520' MSL.
Rwy 36R, terrain beginning 19' from DER, 191' left of centerline, up to 500' MSL.
Terrain beginning 176' from DER, 489' right of centerline, up to 512' MSL.

LAUGHLIN AFB (KDLF)

DEL RIO, TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

13DEC12 (12348)

TAKEOFF OBSTACLE NOTES:

Rwy 13C, Taxiing aircraft 14' AGL/1079' MSL, 197' from DER, 222' right of centerline.
Rwy 13L, Taxiing aircraft 14' AGL/1076' MSL, 9' from DER, 204' right of centerline.
Rwy 13R, Taxiing aircraft 38' AGL/1108' MSL, 1159' from DER, 175' left of centerline.
Taxiing aircraft 14' AGL/1090' MSL, 14' from DER, 202' left of centerline.
Taxiing aircraft 14' AGL/1090' MSL, 65' from DER, 301' left of centerline.
Taxiing aircraft 14' AGL/1093' MSL, 524' from DER, 605' right of centerline.
Taxiing aircraft 14' AGL/1093' MSL, 1163' from DER, 599' right of centerline.
Rwy 31C, Vehicular traffic 10' AGL/1092' MSL, 16' from DER, 466' right of centerline.
Rwy 31L, Taxiing aircraft 14' AGL/1091' MSL, 196' from DER, 174' right of centerline.
Vehicular traffic 10' AGL/1088' MSL, 861' from DER, 549' left of centerline.
Taxiing aircraft 14' AGL/1094' MSL, 329' from DER, 329' right of centerline.
Taxiing aircraft 14' AGL/1089' MSL, 177' from DER, 170' left of centerline.
Pole 8' AGL/1084' MSL, 228' from DER, 567' left of centerline.
Pole 8' AGL/1083' MSL, 397' from DER, 625' left of centerline.
Pole 8' AGL/1084' MSL, 344' from DER, 682' left of centerline.
Rwy 31R, Terrain 1082' MSL, 0' from DER, 500' left of centerline.
Terrain 1083' MSL, 141' from DER, 516' left of centerline.
Terrain 1083' MSL, 173' from DER, 546' left of centerline.
Vehicular traffic 10' AGL/1092' MSL, 609' from DER, 534' left of centerline.
Terrain 1085' MSL, 115' from DER, 521' right of centerline.
Terrain 1083' MSL, 72' from DER, 449' right of centerline.
Taxiing aircraft 14' AGL/1090' MSL, 6' from DER, 174' left of centerline.
Railroad 23' AGL/1102' MSL, 1423' from DER, 469' right of centerline.
Windsock 26' AGL/1101' MSL, 19' from DER, 496' left of centerline.
Railroad 23' AGL/1102' MSL, 1239' from DER, 869' left of centerline.

LLANO, TX

LLANO MUNI (AQO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17DEC09 (09351) (FAA)

TAKEOFF MINIMUMS:

Rwys 13, 31, NA-Environmental.

DEPARTURE PROCEDURE:

Rwy 35, climb heading 354° to 1900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 17, tree 11' from DER, 364' left of centerline, 25' AGL/1144' MSL.
Trees 811' from DER, 242' left of centerline, 25' AGL/1124' MSL.
Rwy 35, hangar 209' from DER, 497' right of centerline, 30' AGL/1149' MSL.
Tree 485' from DER, 265' right of centerline, 25' AGL/1144' MSL.
Vehicles on North-South road, 270' left of centerline, 15' AGL/1114' MSL.
Vehicles on road 390' from DER, crosses centerline East-West, 15' AGL/1134' MSL.

LOCKHART, TX

LOCKHART MUNI (50R)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25AUG11 (11237) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 400-3 or std. w/min. climb of 275' per NM to 1200.

DEPARTURE PROCEDURE:

Rwy 36, climb heading 355° to 1200 before turning.

TAKEOFF OBSTACLE NOTES:

Rwy 18, trees beginning 47' from DER, 267' left of centerline, up to 65' AGL/555' MSL.
Trees beginning 245' from DER, 13' right of centerline, up to 42' AGL/541' MSL.
Rwy 36, bush 51' from DER, 305' right of centerline, 8' AGL/568' MSL.
Pole 1298' from DER, 561' right of centerline, 38' AGL/568' MSL.
Tower 2.2 NM from DER, 2536' right of centerline, 378' AGL/918' MSL.

MARFA, TX

MARFA MUNI (MRF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 25FEB21 (21056) (FAA)

TAKEOFF MINIMUMS:

Rwys 9, 27, NA - Environmental.
CAUTION: Unmarked balloon and cable to 14000' MSL in R-6318.

DEPARTURE PROCEDURE:

Rwy 4, climbing right turn direct MRF VOR/DME thence...
Rwy 13, climb direct MRF VOR/DME thence...
Rwys 22, 31, climbing left turn direct MRF VOR/DME thence...
...all aircraft climb in MRF holding pattern (southeast, left turn, 313° inbound) to cross MRF VOR/DME at or above MEA for direction of flight.

TAKEOFF OBSTACLE NOTES:

Rwy 4, vehicle on road, tree beginning 18' from DER, 319' left of centerline, up to 15' AGL/4863' MSL.
Tree 76' from DER, 504' right of centerline, 4852' MSL.
Vehicle on road, tree beginning 121' from DER, 48' left of centerline, up to 15' AGL/4864' MSL.
Vehicle on road 462' from DER, 270' left of centerline, 4866' MSL.
Vehicle on road 469' from DER, 613' right of centerline, 4863' MSL.
Vehicle on road beginning 558' from DER, 197' left of centerline, up to 4869' MSL.
Vehicle on road 709' from DER, 417' left of centerline, 4870' MSL.
Vehicle on road 744' from DER, 583' right of centerline, 4868' MSL.
Rwy 13, vehicle on road 29' from DER, 413' right of centerline, 4846' MSL.
Vehicle on road 175' from DER, 429' right of centerline, 15' AGL/4848' MSL.
Vehicle on road 513' from DER, 564' left of centerline, 4846' MSL.
Pole 1041' from DER, 572' right of centerline, 4858' MSL.
Rwy 22, vehicle on road beginning 5' from DER, 281' left of centerline, up to 15' AGL/4840' MSL.
Tree 152' from DER, 419' right of centerline, 4833' MSL.
Tank, vehicle on road beginning 340' from DER, 272' left of centerline, up to 4846' MSL.
Rwy 31, building 31' from DER, 249' right of centerline, 5' AGL/4843' MSL.

MASON, TX

MASON COUNTY (T92)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 300-1 or std. w/ min. climb of 440' per NM to 1800.

DEPARTURE PROCEDURE:

Rwy 18, climb heading 176° to 2100' before turning right.

TAKEOFF OBSTACLE NOTES:

Rwy 18, trees beginning 469' from DER, 87' left of centerline, up to 35' AGL/1555' MSL.
Rwy 36, trees beginning 379' from DER, left and right of centerline, up to 35' AGL/1538' MSL.
T-L tower 3061' from DER, 1185' left of centerline, 95' AGL/1628' MSL.
T-L towers beginning 3625' from DER, 193' left of centerline, up to 85' AGL/1641' MSL.
T-L towers beginning 4435' from DER, 303' right of centerline, up to 90' AGL/1667' MSL.

MC ALLEN, TX

MC ALLEN MILLER INTL (MFE)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 10DEC15 (15344) (FAA)

TAKEOFF MINIMUMS:

Rwy 36, 300-1½, or std. w/min. climb of 296' per NM to 500'.

TAKEOFF OBSTACLE NOTES:

Rwy 14, trees beginning 792' from DER, 593' left of centerline, up to 44' AGL/139' MSL.
Rwy 32, trees and poles beginning 709' from DER, 362' left of centerline, up to 52' AGL/157' MSL.
Tree 1019' from DER, 627' right of centerline, 42' AGL/142' MSL.
Rwy 36, pole 581' from DER, on centerline, 19' AGL/122' MSL.
Tower 198' from DER, 335' left of centerline, 38' AGL/140' MSL.
Buildings and trees beginning 652' from DER, 36' left of centerline, up to 50' AGL/155' MSL.
Towers, poles and buildings beginning 635' from DER, 25' right of centerline, up to 62' AGL/166' MSL.
Buildings 2016' from DER, 860' right of centerline, 89' AGL/197' MSL.
Buildings 1.29 NM from DER, 243' right of centerline, 263' AGL/394' MSL.

MIDLAND, TX

MIDLAND AIRPARK (MDD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 16AUG18 (18228) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, 400-2½ or std. w/min. climb of 220' per NM to 3300.
Rwy 25, 300-1⅛ or std. w/min. climb of 230' per NM to 3100, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 7, vehicles on road and tree beginning 87' from DER, 360' left of centerline, up to 2803' MSL.
Vegetation 218' from DER, 441' right of centerline, 2797' MSL.
Poles beginning 316' from DER, 443' left of centerline, up to 50' AGL/2840' MSL.
Poles beginning 1601' from DER, 252' left of centerline, up to 52' AGL/2843' MSL.
Pole 1868' from DER, 377' left of centerline, 52' AGL/2849' MSL.
Pole 2136' from DER, 343' left of centerline, 52' AGL/2855' MSL.
Pole 2403' from DER, 309' left of centerline, 52' AGL/2859' MSL.
Poles beginning 2688' from DER, 256' left of centerline, up to 52' AGL/2861' MSL.
Rwy 16, vegetation 37' from DER, 490' right of centerline, 2803' MSL.
Pole 196' from DER, 498' right of centerline, 33' AGL/2827' MSL.
Pole 318' from DER, 449' right of centerline, 34' AGL/2828' MSL.
Poles and trees beginning 613' from DER, 296' right of centerline, up to 42' AGL/2834' MSL.
Pole 826' from DER, 454' left of centerline, 32' AGL/2822' MSL.
Tree 856' from DER, 227' left of centerline, 2829' MSL.
Trees beginning 1098' from DER, 291' right of centerline, up to 2842' MSL.
Poles beginning 1269' from DER, 664' left of centerline, up to 51' AGL/2839' MSL.
Tower 2 NM from DER, 3181' left of centerline, 354' AGL/3136' MSL.
Building 2 NM from DER, 3680' left of centerline, 354' AGL/3135' MSL.
Rwy 25, pole 104' from DER, 519' right of centerline, 67' AGL/2870' MSL.
Poles beginning 373' from DER, 316' right of centerline, up to 69' AGL/2873' MSL.
Tree and sign beginning 642' from DER, 205' left of centerline, up to 2840' MSL.
Poles, lighting, and tree beginning 644' from DER, 12' right of centerline, up to 71' AGL/2876' MSL.
Tree, pole, and lighting beginning 681' from DER, 76' left of centerline, up to 2842' MSL.
Building and trees beginning 866' from DER, 38' left of centerline, up to 40' AGL/2851' MSL.
Tower 5309' from DER, 1326' right of centerline, 137' AGL/2956' MSL.
Rwy 34, vehicles on road 572' from DER, 423' left of centerline, 2816' MSL.
Pole and trees beginning 635' from DER, 329' right of centerline, up to 51' AGL/2843' MSL.
Tree 838' from DER, 484' left of centerline, 2825' MSL.
Trees beginning 1216' from DER, 328' right of centerline, up to 2850' MSL.

MIDLAND, TX (CON'T)

MIDLAND INTL AIR AND SPACE PORT (MAF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 22JUN17 (17173) (FAA)

TAKEOFF MINIMUMS:

Rwy 34L, 300-1½ or std. w/min. climb of 400' per NM to 3200.

Rwy 34R, 300-1¼ or std. w/min. climb of 320' per NM to 3200.

TAKEOFF OBSTACLE NOTES:

Rwy 4, trees beginning 24' from DER, 34' right of centerline, up to 40' AGL/2903' MSL.
Rods, towers and domes beginning 1231' from DER, 442' left of centerline, up to 108' AGL/2963' MSL.
Rwy 10, rods, antennas, and lights beginning 72' from DER, 40' right of centerline, up to 20' AGL/2874' MSL.
Trees, poles, and signs beginning 1296' from DER, 457' left of centerline, up to 40' AGL/2913' MSL.
Rwy 16L, signs and poles beginning 94' from DER, 20' left of centerline, up to 30' AGL/2877' MSL.
Railroad beginning 530' from DER, 17' left of centerline, 23' AGL/2869' MSL.
Vehicles on road beginning 301' from DER, 268' left of centerline, 17' AGL/2862' MSL.
Rwy 16R, pole 1794' from DER, 975' right of centerline, 55' AGL/2906' MSL.
Rwy 22, tower, poles, lights, and antenna beginning 111' from DER, 66' right of centerline, up to 102' AGL/2986' MSL.
Hangars 1112' from DER, 600' right of centerline, 55' AGL/2906' MSL.
Tower, poles, and sign beginning 83' from DER, 62' left of centerline, up to 120' AGL/2971' MSL.
Rwy 34L, drilling rigs beginning 201' from DER, 178' right of centerline, up to 165' AGL/3037' MSL.
Drilling rigs beginning 3228' from DER, 769' left of centerline, 165' AGL/3056' MSL.
Rwy 34R, vehicles on road beginning 256' from DER, 10' right of centerline, up to 17' AGL/2881' MSL.
Trees and bushes beginning 171' from DER, 80' right of centerline, up to 40' AGL/2878' MSL.
Poles and fence beginning 28' from DER, 109' right of centerline, up to 38' AGL/2903' MSL.
Fence beginning 83' from DER, 271' left of centerline, 8' AGL/2872' MSL.
Windmill, poles and trees beginning 1239' from DER, 116' left of centerline, up to 66' AGL/2913' MSL.
Drilling rig 5540' from DER, 267' left of centerline, 165' AGL/3025' MSL.

MONAHANS, TX

ROY HURD MEMORIAL (E01)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 31MAY12 (12152) (FAA)

TAKEOFF MINIMUMS:

Rwy 1, 400-1½ or std. w/min. climb of 434' per NM to 3100.

Rwy 12, 300-1 or std. w/min. climb of 552' per NM to 2900.

TAKEOFF OBSTACLE NOTES:

Rwy 1, vehicles on road, trees, and power line and poles beginning 185' from DER, left and right of centerline, up to 40' AGL/2649' MSL.
Tower 1.2 NM from DER, 211' right of centerline, 303' AGL/2928' MSL.
Rwy 12, bush 75' from DER, 479' left of centerline, 12' AGL/2617' MSL.
Trees and a pole beginning 778' from DER, 23' right of centerline, up to 31' AGL/2641' MSL.
Trees beginning 1041' from DER, 29' left of centerline, up to 42' AGL/2652' MSL.
Tower 2283' from DER, 909' left of centerline, 130' AGL/2744' MSL.
Rwy 19, vehicle on road 215' from DER, 457' right of centerline, 15' AGL/2624' MSL.
Rwy 30, fence, railroad, poles, and trees beginning 56' from DER, 106' right of centerline, up to 44' AGL/2649' MSL.
Vehicle on road, light pole, building, and poles beginning 294' from DER, 41' left of centerline, up to 50' AGL/2655' MSL.

NEW BRAUNFELS, TX

NEW BRAUNFELS RGNL (BAZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 25JUN15 (15176) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, poles beginning 1236' from DER, 277' right of centerline, up to 40' AGL/678' MSL.
Poles beginning 1238' from DER, 557' left of centerline, up to 41' AGL/677' MSL.
Trees beginning 1339' from DER, 211' right of centerline, up to 55' AGL/690' MSL.
Rwy 35, airport visual aid 56' from DER, 25' right of centerline, 3' AGL/649' MSL.

ODESSA, TX

ODESSA-SCHLEMEYER FIELD (ODO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 13SEP18 (18256) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, 300-2 or std. w/min. climb of 255' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 1300 feet prior to DER.

Rwy 20, 300-2½ or std. w/min. climb of 225' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 2100' prior to DER.

TAKEOFF OBSTACLE NOTES:

Rwy 2, vehicles on roadway 184' from DER, left and right of centerline, up to 13' AGL/3013' MSL.

Rwy 16, tower 1.5 NM from DER, 2759' right of centerline, 145' AGL/3205' MSL.

Rwy 20, tower 2.0 NM from DER, 1311' left of centerline, 340' AGL/3287' MSL.

Rwy 29, rising terrain, trees and poles beginning 8' from DER, 495' right of centerline, up 3012' MSL.

Rwy 34, vehicles on roadway beginning 48' from DER, left and right of centerline, up to 16' AGL/3001' MSL.

Hangars 739' from DER, 628' left of centerline, 25' AGL/3012' MSL.

Antenna 1104' from DER, 185' right of centerline, 45' AGL/3032' MSL.

OZONA, TX

OZONA MUNI (OZA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10JUL03 (03191) (FAA)

TAKEOFF MINIMUMS:

Rwy 16, 300-1 or std. with a min. climb of 445' per NM to 2700.

Rwy 34, 200-1½ or std. with a min. climb of 380' per NM to 2600.

TAKEOFF OBSTACLE NOTES:

Rwy 16, trees 3686' from DER, 354' left of centerline, 100' AGL/2560' MSL.

Trees 4436' from DER, 355' left of centerline, 100' AGL/2574' MSL.

Rwy 34, trees 1363' from DER, 638' left of centerline, 100' AGL/2529' MSL.

Trees 3479' from DER, 791' left of centerline, 100' AGL/2535' MSL.

Trees 7679' from DER, 932' left of centerline, 100' AGL/2593' MSL.

PEARSALL, TX

MC KINLEY FIELD (T30)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17NOV11 (11321) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 13, trees beginning abeam DER, 300' left of centerline, up to 40' AGL/605' MSL.

Transmission lines beginning 1777' from DER, across centerline, up to 80' AGL/642' MSL.

Rwy 31, train on track 496' from DER, across centerline, 23' AGL/610' MSL.

Vehicle on road 291' from DER, across centerline, 15' AGL/602' MSL.

PECOS, TX

PECOS MUNI (PEQ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20SEP12 (12264) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 14, bush 170' from DER, 252' right of centerline, up to 7' AGL/2607' MSL.

Rwy 32, bush 129' from DER, 348' left of centerline, up to 9' AGL/2614' MSL.

PLEASANTON, TX

PLEASANTON MUNI (PEZ)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20NOV08 (08325) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 16, vehicle on road 108' from DER, 285' left of centerline, 15' AGL/424' MSL.

Fence 135' from DER, 194' left of centerline, 3' AGL/412' MSL.

Fence 235' from DER, 38' right of centerline, 3' AGL/412' MSL.

Trees beginning 246' from DER, 56' left of centerline, up to 100' AGL/529' MSL.

Trees beginning 173' from DER, 154' right of centerline, up to 100' AGL/529' MSL.

Rwy 34, vehicle on road 136' from DER, left to right of centerline, up to 15' AGL/444' MSL.

Fence 191' from DER, 251' left of centerline, 3' AGL/442' MSL.

Trees beginning 210' from DER, 51' left of centerline, up to 100' AGL/539' MSL.

Tree 172' from DER, 74' right of centerline, 100' AGL/529' MSL.

PORT ARANSAS, TX

MUSTANG BEACH (RAS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15JAN09 (09015) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 12, transmission towers and poles beginning 43' from DER, 28' right of centerline, up to 81' AGL/86' MSL.
Building 2435' from DER, 967' right of centerline, 130' AGL/135' MSL.
Transmission towers and poles beginning 1141' from DER, 13' left of centerline, up to 83' AGL/88' MSL.
Rwy 30, boat 1657' from DER, 915' left of centerline, 50' AGL/50' MSL.

PORT ISABEL, TX

PORT ISABEL-CAMERON COUNTY (PIL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 19JUL18 (18200) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w/min. climb of 243' per NM to 700 or 900-3 for VCOA.
Rwy 21, 600-3 w/min. climb of 231' per NM to 700 or std. w/min. climb of 312' per NM to 700 or 900-3 for VCOA.

DEPARTURE PROCEDURE:

Rwy 13, climb on heading 130° to 500 before turning right.
Rwy 17, climb on heading 175° to 600 before turning right.

VCOA:

Rwy 17, obtain ATC approval for VCOA when requesting IFR clearance: climb in visual conditions to cross Port Isabel-Cameron County airport at or above 800 before proceeding on course.
Rwy 21, obtain ATC approval for VCOA when requesting IFR clearance: climb in visual conditions to cross Port Isabel- Cameron County airport at or above 800 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

Rwy 3, trees beginning 15' from DER, 5' right of centerline, up to 100' AGL/117' MSL.
Trees beginning 200' from DER, 25' left of centerline, up to 100' AGL/117' MSL.
Rwy 8, trees beginning 141' from DER, 109' right of centerline, up to 100' AGL/117' MSL.
Trees beginning 142' from DER, 183' left of centerline, up to 100' AGL/117' MSL.
Rwy 13, trees beginning 6' from DER, 6' left of centerline, up to 100' AGL/117' MSL.
Trees beginning 26' from DER, 15' right of centerline, up to 100' AGL/117' MSL.
Rwy 17, trees beginning 183' from DER, 84' right of centerline, up to 100' AGL/117' MSL.
Trees beginning 185' from DER, 178' left of centerline, up to 100' AGL/117' MSL.
Rwy 21, trees beginning 90' from DER, 19' left of centerline, up to 100' AGL/117' MSL.
Trees beginning 246' from DER, 0' of centerline, up to 100' AGL/117' MSL.
Windmill 2.1 NM from DER, 2541' left of centerline, 492' AGL/512' MSL.
Windmill 2.2 NM from DER, 1999' left of centerline, 492' AGL/514' MSL.
Windmill 2.4 NM from DER, 1377' left of centerline, 499' AGL/522' MSL.
Rwy 26, trees beginning 6' from DER, 208' right of centerline, up to 100' AGL/117' MSL.
Trees beginning 7' from DER, 83' left of centerline, up to 100' AGL/117' MSL.
Rwy 35, trees beginning 158' from DER, 202' right of centerline, up to 100' AGL/114' MSL.
Trees beginning 765' from DER, 63' left of centerline, up to 100' AGL/114' MSL.
Trees beginning 3191' from DER, 61' left of centerline, up to 100' AGL/117' MSL.

PRESIDIO, TX

PRESIDIO LELY INTL (PRS)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03APR14 (14093) (FAA)

TAKEOFF MINIMUMS:

Rwy 17, std. w/min. climb of 230' per NM to 5600, or 1900-3 for climb in visual conditions.
Rwy 35, std. w/min. climb of 280' per NM to 5700, or 1900-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

Rwy 17, climbing left turn to 9000 on heading 045° and MRF VOR/DME R-185 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure.
Rwy 35, climbing right turn to 9000 on heading 065° and MRF VOR/DME R-190 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure.

TAKEOFF OBSTACLE NOTES:

Rwy 17, brush abeam DER, left and right of centerline, up to 10' AGL/2929' MSL.
Power line 990' from DER, 762' left of centerline, 86' AGL/3005' MSL.
Vehicles on road, 990' from DER, 762' left of centerline, 17' AGL/2936' MSL.
Rwy 35, brush abeam DER, left and right of centerline, up to 10' AGL/3089' MSL.
Powerlines beginning 2978' from DER, 749' right of centerline, up to 86' AGL/3205' MSL.
Vehicles on road, 2978' from DER, 1291' right of centerline, up to 17' AGL/3016' MSL.

ROBSTOWN, TX
NUECES COUNTY (RBO)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 30JAN20 (20030) (FAA)
TAKEOFF MINIMUMS:
Rwy 13, std. w/min. climb of 267' per NM to 1400 or 1400-2½ for climb in visual conditions.
DEPARTURE PROCEDURE:
Rwy 13, climb heading 129° to 1400 before turning eastbound or northbound. For climb in visual conditions, cross Nueces County airport at or above 1300' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.
Rwy 31, climb heading 309° to 700 before turning southeast bound.
TAKEOFF OBSTACLE NOTES:
Rwy 13, tower 4.8 NM from DER, 5070' right of centerline, 989' AGL/1049' MSL.
Poles beginning 1005' from DER, 347' right of centerline, up to 42' AGL/116' MSL.
Poles, vehicles on road, post, transmission tower and grain bin/silo beginning at DER, 69' left of centerline, up to 62' AGL/136' MSL.
Rwy 31, vehicles on road and pole beginning 2' from DER, 250' right of centerline, 15' AGL/93' MSL.

ROCKPORT, TX
ARANSAS COUNTY (RKP)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 15MAR07 (07074) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, road plus vehicle 500' from DER, 593' left of centerline, 17' AGL/40' MSL.
Rwy 18, antenna 5599' from DER, 602' left of centerline, 160' AGL/171' MSL.
Rwy 32, road plus vehicle 291' from DER, 533' left of centerline, 17' AGL/40' MSL.
Rwy 36, road plus vehicle 576' from DER, 597' left of centerline, 17' AGL/40' MSL.

ROCKSPRINGS, TX
EDWARDS COUNTY (ECU)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 28SEP06 (06271) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 14, multiple trees beginning 1076' from DER, 22' right of centerline, up to 100' AGL/2459' MSL.
Rwy 32, fence 101' from DER, 35' left of centerline, 5' AGL/2374' MSL.
Multiple trees beginning 318' from DER, 71' left of centerline, up to 100' AGL/2479' MSL.
Multiple trees beginning 992' from DER, 532' right of centerline, up to 100' AGL/2479' MSL.

SAN ANGELO, TX
SAN ANGELO RGNL/MATHIS FIELD (SJT)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 26AUG10 (10238) (FAA)
DEPARTURE PROCEDURE:
Rwy 27, climb to 2500 before turning right.
Rwy 36, climb to 2600 before turning left.
TAKEOFF OBSTACLE NOTES:
Rwy 3, fence 8' from DER, 490' right of centerline, 3' AGL/1896' MSL.
Rwy 18, multiple trees and poles beginning 112' from DER, 183' left of centerline, up to 43' AGL/1962' MSL.
Multiple trees and poles beginning 1076' from DER, 114' right of centerline, up to 47' AGL/1966' MSL.
Catenary 1779' from DER, 457' right of centerline, 45' AGL/1964' MSL.
Rwy 27, multiple trees beginning 482' from DER, 74' left of centerline, up to 24' AGL/1933' MSL.
Light pole 1040' from DER, 252' left of centerline, 22' AGL/1931' MSL.
Tree 538' from DER, 226' right of centerline, 21' AGL/1930' MSL.

SAN ANTONIO, TX

BOERNE STAGE FIELD (5C1)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 18JAN07 (07018) (FAA)

DEPARTURE PROCEDURE:
Rwy 17, climb heading 169° to 2000 before turning westbound.
Rwy 35, climb heading 349° to 2800 before turning westbound.

TAKEOFF OBSTACLE NOTES:
Rwy 17, tree, pole beginning 20' from DER, 34' left of centerline, up to 1446' MSL.
Tree, pole beginning 47' from DER, 12' right of centerline, up to 1410' MSL.
Pole, tree beginning 788' from DER, 526' left of centerline, up to 1448' MSL.
Trees beginning 1005' from DER, 566' left of centerline, up to 1451' MSL.
Tree 2244' from DER, 986' right of centerline, 1450' MSL.
Tree 2327' from DER, 1069' right of centerline, 1455' MSL.
Tree 2464' from DER, 1005' left of centerline, 1452' MSL.
Tree 2465' from DER, 1093' right of centerline, 1457' MSL.
Tree 2531' from DER, 1082' left of centerline, 1454' MSL.
Trees beginning 2569' from DER, 980' right of centerline, up to 1471' MSL.
Trees beginning 2659' from DER, 1037' right of centerline, up to 1476' MSL.
Rwy 35, building beginning 3' from DER, 221' right of centerline, up to 1400' MSL.
Trees beginning 79' from DER, 175' right of centerline, up to 1412' MSL.
Tree, pole beginning 103' from DER, 8' left of centerline, up to 1416' MSL.
Trees beginning 163' from DER, 23' right of centerline, up to 1431' MSL.
Pole, tree beginning 207' from DER, 37' left of centerline, up to 1418' MSL.
Pole, tree beginning 246' from DER, 103' left of centerline, up to 1422' MSL.
Trees beginning 437' from DER, 573' left of centerline, up to 1426' MSL.
Trees beginning 584' from DER, 78' left of centerline, up to 1428' MSL.
Trees beginning 778' from DER, 371' left of centerline, up to 1430' MSL.

SAN ANTONIO INTL (SAT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1A 02MAR17 (17061) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 13R, antenna on rtr tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL.
Building 3801' from DER, 1488' right of centerline, 117' AGL/881' MSL.
Rwy 22, antenna on hangar and flagpole 1198' from DER, 700' right of centerline, 39' AGL/825' MSL.
Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL.
Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.
Rwy 31L, pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL.
Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL.
Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL.
Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL.
Rwy 31R, rod on ol gs 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

STINSON MUNI (SSF)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 2 14FEB08 (08045) (FAA)

TAKEOFF MINIMUMS:
Rwy 9, Std. w/ min climb of 225' per NM to 1900 or 1000-2½ for climb in visual conditions.
Rwy 27, 300-1¾ or std. w/ min. climb of 221' per NM to 900, or alternatively, with standard takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

DEPARTURE PROCEDURE:
Rwy 9, For climb in visual conditions, cross Stinson Muni Airport at or above 1400 MSL before proceeding on course.
Rwy 14, Climb heading 137° to 1200 before turning left.
Rwy 32, Climb heading 317° to 1500 before turning right.

TAKEOFF OBSTACLE NOTES:
Rwy 9, Vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL.
Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.
Rwy 14, Vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.
Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.
Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.
Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.
Rwy 27, Fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.
Vehicle on road 108' from DER, 202' right of centerline, 15' AGL/584' MSL.
Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL.
Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.
Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.
Tank beginning 1.32 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.
Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.
Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.
CON'T

SAN ANTONIO, TX (CON'T)

STINSON MUNI (SSF) (CON'T)

Rwy 32, Fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.
Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.
Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.
Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

SINTON, TX

ALFRED C. BUBBA THOMAS (T69)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 13NOV14 (14317) (FAA)

TAKEOFF MINIMUMS:
Rwys 3, 21, NA-Environmental.

DEPARTURE PROCEDURE:
Rwy 14, climb runway heading to 800 prior to turning east.

TAKEOFF OBSTACLE NOTES:
Rwy 32, vehicle on road 29' from DER, 308' right of centerline, 15' AGL/64' MSL.

SONORA, TX

SONORA MUNI (SOA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20AUG15 (15232) (FAA)

TAKEOFF MINIMUMS:
Rwy 18, 300-1 or std. w/min. climb gradient of 553' per NM to 2400.

DEPARTURE PROCEDURE:
Rwy 18, climb heading 182° to 2900 before turning left.

TAKEOFF OBSTACLE NOTES:
Rwy 18, buildings beginning 683' from DER, left and right of centerline, up to 27' AGL/2163' MSL.
Trees and terrain beginning 2233' from DER, 686' right of centerline, up to 50' AGL/2309' MSL.
Tower 4860' from DER, 1458' right of centerline, 75' AGL/2287' MSL.
Rwy 36, fence beginning 2' from DER, left and right of centerline, up to 5' AGL/2144' MSL.
Vehicles on road beginning 8' from DER, left and right of centerline, up to 10' AGL/2149' MSL.
Tree 65' from DER, 462' right of centerline, 48' AGL/2178' MSL.
Tree 247' from DER, 337' left of centerline, 47' AGL/2187' MSL.
Trees beginning 278' from DER, 439' right of centerline, up to 27' AGL/2157' MSL.
Tree 759' from DER, 508' left of centerline, 15' AGL/2195' MSL.
Trees and terrain beginning 981' from DER, 258' left of centerline, up to 39' AGL/2269' MSL.

TAYLOR, TX

TAYLOR MUNI (T74)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17AUG17 (17229) (FAA)

TAKEOFF OBSTACLE NOTES:
Rwy 17, transmission line towers beginning 2212' from DER, 17' left of centerline, up to 50' AGL/656' MSL.
Transmission line towers beginning 2298' from DER, 463' right of centerline, up to 85' AGL/649' MSL.
Transmission line tower 2365' from DER, 1041' right of centerline, 110' AGL/661' MSL.
Rwy 35, vehicles on road 773' from DER, 544' left of centerline, 630' MSL.
Pole and tree beginning 829' from DER, 442' left of centerline, up to 28' AGL/642' MSL.
Vehicles on road 1105' from DER, 427' right of centerline, 635' MSL.
Tree 1129' from DER, 415' right of centerline, 639' MSL.
Poles beginning 1150' from DER, 474' right of centerline, up to 30' AGL/644' MSL.

TEMPLE, TX

DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 23SEP10 (10266) (FAA)

DEPARTURE PROCEDURE:
Rwy 2, climb on heading between 085° CW to 200° from DER, or climb on heading between 200° CW to 345° from DER to 3600 before proceeding on course or minimum climb of 250' per NM to 3200 for all other courses.
Rwy 33, climb on heading between 070° CW to155° from DER, or climb on heading between 155° CW to 330° from DER to 3600 before proceeding on course or minimum climb of 240' per NM to 3200 for all other courses.

TAKEOFF OBSTACLE NOTES:
Rwy 2, tree 279' from DER, 362' right of centerline, 11' AGL/680' MSL.
Bushes and tree beginning 176' from DER, 416' left of centerline, up to 30' AGL/699' MSL.
Rwy 15, bush 60' from DER, 210' left of centerline, 11' AGL/680' MSL.
Rwy 20, hangars beginning 548' from DER, 571' right of centerline, up to 18' AGL/697' MSL.
Rwy 33, trees beginning 307' from DER, 474' right of centerline, up to 32' AGL/701' MSL.

UVALDE, TX

GARNER FIELD (UVA)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05MAY11 (11125) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 15, trees and poles beginning 70' from DER, 374' left of centerline, up to 100' AGL/1039' MSL.
Trees and poles beginning 208' from DER, 359' right of centerline, up to 100' AGL/1059' MSL.
Rwy 33, vehicle on roadway 622' from DER, left and right of centerline, up to 15' AGL/966' MSL.
Trees beginning 744' from DER, 636' left of centerline, up to 100' AGL/1059' MSL.
Trees beginning 861' from DER, 269' right of centerline, up to 100' AGL/1049' MSL.

VAN HORN, TX

CULBERSON COUNTY (VHN)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15AUG19 (19227) (FAA)

TAKEOFF MINIMUMS:

Rwy 25, NA-Obstacles.

DEPARTURE PROCEDURE:

Rwys 3, 7, 21, Use JURDU DEPARTURE.

TAKEOFF OBSTACLE NOTES:

Rwy 3, tree, vegetation beginning 16' from DER, 133' right of centerline, up to 11' AGL/3928' MSL.
Trees, vegetation beginning 45' from DER, 147' left of centerline, up to 11' AGL/3929' MSL.
Tree, traverse way beginning 135' from DER, 487' right of centerline, up to 17' AGL/3930' MSL.
Trees, traverse way beginning 248' from DER, 343' right of centerline, up to 18' AGL/3931' MSL.
Rwy 7, vegetation beginning 60' from DER, 12' right of centerline, up to 100' AGL/3918' MSL.
Vegetation 119' from DER, 215' left of centerline, 100' AGL/3915' MSL.
Vegetation beginning 148' from DER, 12' left of centerline, up to 100' AGL/3918' MSL.
Rwy 21, tree, vegetation beginning 49' from DER, 291' right of centerline, up to 10' AGL/3969' MSL.
Vegetation beginning 84' from DER, 404' left of centerline, up to 3961' MSL.
Vegetation 4132' from DER, 1604' right of centerline, 100' AGL/3990' MSL.

WACO, TX

MC GREGOR EXECUTIVE (PWG)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13DEC90 (90347) (FAA)

TAKEOFF MINIMUMS:

Rwys 4, 17, 22, 35, 2000-3 or std. with a min. climb of 280' per NM to 3000.

DEPARTURE PROCEDURE:

Rwys 17,22, climb via ACT R-195 to 3000 before proceeding on course.
Rwys 4, 35, climb runway heading to 3000 before proceeding on course.

TSTC WACO (CNW)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 05DEC19 (19339) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 17L, terrain 104' from DER, 473' right of centerline, 460' MSL.
Terrain 198' from DER, 467' right of centerline, 464' MSL.
Poles beginning 1123' from DER, 584' left of centerline, up to 45' AGL/493' MSL.
Rwy 17R, vehicles on roads beginning at DER, 365' right of centerline, up to 10' AGL/479' MSL.
Trees beginning 750' from DER, 482' right of centerline, up to 66' AGL/514' MSL.
Trees beginning 870' from DER, 238' right of centerline, up to 81' AGL/530' MSL.
Tree 1239' from DER, 449' left of centerline, 497' MSL.
Tree 1568' from DER, 629' left of centerline, 500' MSL.
Tree 1924' from DER, 73' left of centerline, 512' MSL.
Rwy 35L, aircraft on taxiway at DER, on centerline, 65' AGL/532' MSL.
Aircraft on taxiway 783' from DER, 478' left of centerline, 65' AGL/534' MSL.
Aircraft on taxiway 808' from DER, 315' right of centerline, 65' AGL/518' MSL.
Tree 2349' from DER, 669' left of centerline, 537' MSL.
Tree 2877' from DER, 1044' left of centerline, 539' MSL.
Rwy 35R, tree 2082' from DER, 897' left of centerline, 523' MSL.

WACO RGNL (ACT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 23SEP10 (10266) (FAA)

TAKEOFF OBSTACLE NOTES:

Rwy 1, rising terrain beginning 11' from DER, 34' right of centerline, up to 504' MSL.
Pole 1170' from DER, 593' left of centerline, 34' AGL/534' MSL.
Tree 1674' from DER, 794' right of centerline, 80' AGL/581' MSL.
Rwy 19, rod 590' from DER, 257' right of centerline, 40' AGL/524' MSL.
Rwy 32, trees beginning 501' from DER, 17' left of centerline, up to 70' AGL/562' MSL.
Trees beginning 836' from DER, 30' right of centerline, up to 80' AGL/609' MSL.

WESLACO, TX
MID VALLEY (TXW)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
AMDT 1 02MAR17 (17061) (FAA)
DEPARTURE PROCEDURE:
Rwy 14, climb left turn heading 360° to 1800 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 14, road, fence, sign, tree, bldg, beginning 4' from DER, 174' left of centerline, up to 84' MSL.
Road, fence, beginning 18' from DER, 442' right of centerline, up to 82' MSL.
Road 71' from DER, 502' right of centerline, 83' MSL.
Tree, flagpole, road, pole, beginning 94' from DER, 421' left of centerline, up to 26' AGL/90' MSL.
Flagpole, road, beginning 110' from DER, 373' left of centerline, up to 31' AGL/96' MSL.
Tree, road, fence, beginning 161' from DER, 429' left of centerline, up to 33' AGL/98' MSL.
Pole, beginning 220' from DER, 408' left of centerline, up to 32' AGL/99' MSL.
Pole, tree, beginning 242' from DER, 412' left of centerline, up to 34' AGL/101' MSL.
Light pole, beginning 284' from DER, 462' left of centerline, up to 38' AGL/103' MSL.
Pole, tree, lt pole, beginning 289' from DER, 349' left of centerline, up to 37' AGL/105' MSL.
Pole, tree, lt pole, beginning 360' from DER, 307' left of centerline, up to 39' AGL/106' MSL.
Pole 499' from DER, 475' right of centerline, 31' AGL/98' MSL.
Pole 499' from DER, 471' right of centerline, 30' AGL/99' MSL.
Tower, tree, pole, lt pole, ant, flagpole, bldg, beginning 511' from DER, 264' left of centerline, up to 60' AGL/131' MSL.
Catenary, road, pole, beginning 520' from DER, 468' right of centerline, up to 33' AGL/100' MSL.
Pole, tree, beginning 546' from DER, 337' right of centerline, up to 33' AGL/101' MSL.
Tree, lt pole, catenary, beginning 745' from DER, 268' right of centerline, up to 42' AGL/108' MSL.
Antenna, pole, catenary, beginning 1422' from DER, 437' right of centerline, up to 59' AGL/127' MSL.
Flagpole, pole, beginning 1711' from DER, 763' right of centerline, up to 75' AGL/142' MSL.
Rwy 32, road, fence, beginning 17' from DER, 345' left of centerline, up to 82' MSL.
Tree 64' from DER, 510' left of centerline, 29' AGL/95' MSL.
Tree 69' from DER, 496' left of centerline, 32' AGL/97' MSL.
Pole 109' from DER, 524' left of centerline, 33' AGL/100' MSL.
Pole, road, tree, bldg, beginning 111' from DER, 261' left of centerline, up to 38' AGL/103' MSL.
Road, beginning 562' from DER, 396' right of centerline, up to 87' MSL.
Road 630' from DER, 391' right of centerline, 88' MSL.
Road, beginning 659' from DER, 75' right of centerline, up to 89' MSL.
Trees, beginning 881' from DER, 571' left of centerline, up to 40' AGL/106' MSL.

WINK, TX
WINKLER COUNTY (INK)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG-A 10MAR11 (11069) (FAA)
DEPARTURE PROCEDURE:
Rwy 13, climb heading 147° to 3400 before proceeding on course.
TAKEOFF OBSTACLE NOTES:
Rwy 4, power lines beginning 524' from DER, right and left of centerline, up to 30' AGL/2829' MSL.
Trees beginning 742' from DER, right and left of centerline, up to 50' AGL/2859' MSL.
Rwy 13, trees beginning 133' from DER, 307' right of centerline, up to 50' AGL/2822' MSL.
Vehicles on road beginning 535' from DER, right and left of centerline, up to 15' AGL/2829' MSL.
Rwy 31, trees beginning 49' from DER, 396' left of centerline, up to 50' AGL/2832' MSL.
Trees beginning 1563' from DER, 585' right of centerline, up to 50' AGL/2874' MSL.

WINTERS, TX
WINTERS MUNI (77F)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 25AUG11 (11237) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 17, multiple trees and fence beginning 428' from DER, 45' left of centerline, up to 25' AGL/1914' MSL.
Multiple trees and terrain beginning 110' from DER, 188' right of centerline, up to 12' AGL/1895' MSL.

YOAKUM, TX
YOAKUM MUNI (T85)
TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES
ORIG 10MAR11 (11069) (FAA)
TAKEOFF OBSTACLE NOTES:
Rwy 13, vehicle on road, 179' from DER, 237' left of centerline, up to 15' AGL/364' MSL.
Rwy 31, vehicle on road, 77' from DER, 257' right of centerline, up to 15' AGL/384' MSL.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non-precision approaches and approaches with vertical guidance [NDB, VOR, LOC, TACAN, LDA, SDF, VOR/DME, ASR, RNAV (GPS) or RNAV (RNP)] are 800-2. Standard alternate minimums for precision approaches (ILS, PAR, or GLS) are 600-2. Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Civil pilots see FAR 91. IFR Alternate Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Minimums Notes for alternate airfield suitability.

NAME — ALTERNATE MINIMUMS

ALICE, TX

ALICE INTL (ALI)……**LOC/DME Rwy 31[1]**
RNAV (GPS) Rwy 13[1]
RNAV (GPS) Rwy 31[1]
VOR-A[2]

[1]NA when local weather not available.
[2]Categories A, B, 900-2; Category C, 900-2¾, Category D, 900-3.

ALPINE, TX

ALPINE-CASPARIS MUNI (E38)……..…...**RNAV (GPS) Rwy 19[1]**
RNAV (GPS) Rwy 23[2]

[1]Category B, 1000-2; Category C, 1300-3.
[2]Category A, 900-2; Category B, 1000-2; Category C, 1300-3.

AUSTIN, TX

AUSTIN EXECUTIVE (EDC)....……**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31

NA when local weather not available.

AUSTIN-BERGSTROM INTL (AUS)....……...**ILS or LOC Rwy 17L[1]**
ILS or LOC Rwy 17R[1]
ILS or LOC Rwy 35L[2]
ILS or LOC Rwy 35R[3]
RNAV (GPS) Y Rwy 17L[4]
RNAV (GPS) Y Rwy 17R[4]
RNAV (GPS) Y Rwy 35L[4]
RNAV (GPS) Y Rwy 35R[4]

[1]LOC, Category E, 1000-3.
[2]ILS, Categories C, D, 700-2; Category E, 1000-3; LOC, Category E, 1000-3.
[3]LOC, Category E, 1000-3.
[4]Category E, 1000-3.

NAME — ALTERNATE MINIMUMS

AUSTIN, TX (CON'T)

SAN MARCOS REGIONAL (HYI)……**RNAV (GPS) Rwy 8**
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 26
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 35

NA when local weather not available.
Category D, 800-2¼; Category E, 800-2¾.

BEEVILLE, TX

BEEVILLE MUNI (BEA).....…**RNAV (GPS) Rwy 30**

Category C, 800-2½.

BIG LAKE, TX

REAGAN COUNTY (E41).....**RNAV (GPS) Rwy 16**

NA when local weather not available.
Category C, 800-2¼.

BIGGS AAF (KBIF)

FORT BLISS, TX……...……..**RNAV (GPS) Rwy 22**

NA when R-5103 in use.

BRADY, TX

CURTIS FIELD (BBD)...……..**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35

NA when local weather not available.

BROWNSVILLE, TX

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)..……....…..**ILS or LOC Rwy 13[1]**
LOC BC Rwy 31[1]
RNAV (GPS) Rwy 13
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 31
VOR or TACAN-A

NA when local weather not available.
[1]NA when control tower closed.

BURNET, TX

BURNET MUNI KATE CRADDOCK FIELD (BMQ)...……...**RNAV (GPS) Rwy 1**
RNAV (GPS) Rwy 19

NA when local weather not available.

NAME ALTERNATE MINIMUMS

CASTROVILLE, TX
CASTROVILLE
MUNI (CVB)……..**RNAV (GPS) Rwy 16**
RNAV (GPS) Rwy 34
NA when local weather not available.
Category C, 900-2¼.

COLEMAN, TX
COLEMAN MUNI (COM)…..**RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
NA when local weather not available.
Category C, 800-2¼.

COMANCHE, TX
COMANCHE
COUNTY-CITY (MKN)……**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

CORPUS CHRISTI, TX
CORPUS CHRISTI
INTL (CRP)……..**ILS or LOC Rwy 13[1]**
ILS or LOC Rwy 36[24]
LOC Rwy 31[2]
RNAV (GPS) Rwy 18[3]
RNAV (GPS) X Rwy 31[3]
RNAV (GPS) Y Rwy 13[3]
RNAV (GPS) Y Rwy 31[3]
RNAV (GPS) Y Rwy 36[3]
VOR or TACAN Rwy 18[34]
[1]ILS, LOC, Category C, 800-2¼;
Category D, 800-2½; Category E, 800-2¾.
[2]LOC, Category C, 800-2¼; Category D, 800-2½;
Category E, 800-2¾.
[3]Category C, 800-2¼; Category D, 800-2½;
Category E, 800-2¾.
[4]NA when local weather not available.

COTULLA, TX
COTULLA-LA SALLE
COUNTY (COT)……**VOR-A**
NA when local weather not available.

DEL RIO, TX
DEL RIO INTL (DRT)……**RNAV (GPS) Rwy 13**
VOR-A[12]
NA when local weather not available.
[1]NA when Del Rio APP CON closed.
[2]Category C, 800-2¼. Category D, 800-2½.

NAME ALTERNATE MINIMUMS

EL PASO, TX
EL PASO INTL (ELP)...……..**ILS or LOC Rwy 22[1]**
LOC/DME Rwy 4[2]
RADAR-1[34]
RNAV (GPS) Rwy 26R[2]
RNAV (GPS) X Rwy 4[2]
RNAV (GPS) Y Rwy 22[2]
RNAV (GPS) Y Rwy 26L[2]
VOR Rwy 26L[3]
[1]LOC, Category D, 800-2¼; Category E, 800-2½.
[2]Category D, 800-2¼.
[3]Category D, 800-2¼; Category E, 800-2½.
[4]NA when local weather not available.

FALFURRIAS, TX
BROOKS
COUNTY (BKS)...……**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
Category C, 900-2½; Category D, 900-2¾.

FORT HOOD/KILLEEN, TX
ROBERT GRAY
AAF (GRK)...……..**ILS or LOC Rwy 15[1]**
ILS or LOC Rwy 33[1]
RNAV (GPS) Rwy 15[2]
RNAV (GPS) Rwy 33[2]
[1]LOC, Category E, 800-2½.
[2]Category E, 800-2½.

FORT STOCKTON, TX
FORT STOCKTON-PECOS
COUNTY (FST)...……....**RNAV (GPS) Rwy 12[1]**
RNAV (GPS) Rwy 30[1]
VOR Rwy 12
Category D, 800-2½.
[1]NA when local weather not available.

FREDERICKSBURG, TX
GILLESPIE
COUNTY (T82)...……..**RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR/DME-A[1]
Category C, 800-2¼.
[1]NA when local weather not available.

GEORGETOWN, TX
GEORGETOWN
MUNI (GTU)...……..**RNAV (GPS) Rwy 11[1]**
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 29[1]
RNAV (GPS) Rwy 36
Category D, 900-2¾.
[1]NA when local weather not available.

NAME ALTERNATE MINIMUMS

HARLINGEN, TX
VALLEY INTL (HRL).....**ILS or LOC Rwy 17R[12]**
LOC/DME BC Rwy 35L[1]
RNAV (GPS) Rwy 17L[2]
RNAV (GPS) Rwy 35R[2]
RNAV (GPS) Y Rwy 13[12]
RNAV (GPS) Y Rwy 17R[12]
RNAV (GPS) Y Rwy 35L[12]
VOR Rwy 17L[2]
VOR/DME Y or TACAN Rwy 31[23]
[1]NA when control tower closed.
[2]NA when local weather not available.
[3]Categories A, B, 1000-2;
Categories C, D, 1000-3.

HEBRONVILLE, TX
JIM HOGG
COUNTY (HBV).....**RNAV (GPS) Rwy 13**
NA when local weather not available.

HONDO, TX
SOUTH TEXAS RGNL
AT HONDO (HDO).....**NDB Rwy 35R**
RNAV (GPS) Rwy 17L
RNAV (GPS) Rwy 35R
NA when local weather not available.

INGLESIDE, TX
MC CAMPBELL-
PORTER (TFP).....**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

KERRVILLE, TX
KERRVILLE MUNI/LOUIS SCHREINER
FIELD (ERV).....**RNAV (GPS) Rwy 12[1]**
RNAV (GPS) Rwy 30[2]
VOR-A[3]
NA when local weather not available.
[1]Category C, 800-2¼; Category D, 1000-3.
[2]Category C, 800-2¼.
[3]Categories A, B, 900-2, Category C, 900-2½.

LAMPASAS, TX
LAMPASAS (LZZ).....**VOR-A**
NA when local weather not available.

NAME ALTERNATE

LAREDO, TX
LAREDO
INTL (LRD).....**ILS or LOC Rwy 18R[12]**
LOC BC Rwy 36L[12]
RNAV (GPS) Rwy 14[3]
RNAV (GPS) Rwy 18L[3]
RNAV (GPS) Rwy 18R[3]
RNAV (GPS) Rwy 32[3]
RNAV (GPS) Rwy 36L[3]
VOR or TACAN Rwy 14[3]
VOR or TACAN Rwy 32[3]
[1]NA when control tower closed.
[2]LOC, Category D, 800-2¼; Category E, 800-2½.
[3]Category D, 800-2¼; Category E, 800-2½.

LLANO, TX
LLANO MUNI (AQO).....**RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
VOR-A
NA when local weather not available.

MC ALLEN, TX
MC ALLEN MILLER
INTL (MFE).....**ILS or LOC Rwy 14[1]**
ILS or LOC Rwy 32[1]
RNAV (GPS) Rwy 14[2]
RNAV (GPS) Rwy 32[2]
VOR Rwy 14[2]
VOR Rwy 32[2]
NA when local weather not available.
[1]ILS, Category D, 700-2¼; LOC, Category D, 800-2¼.
[2]Category D, 800-2¼.

MIDLAND, TX
MIDLAND
AIRPARK (MDD).....**RNAV (GPS) Rwy 25[1]**
RNAV (GPS) Rwy 34
NA when local weather not available.
[1]Category D, 900-3.

MIDLAND INTL AIR AND SPACE
PORT (MAF).....**ILS or LOC Rwy 10[12]**
RADAR-1[3]
VOR or TACAN Rwy 34L[3]
VOR or TACAN Rwy 16R[3]
[1]ILS, Category D, 700-2; Category E, 800-2½;
LOC, Category E, 800-2½.
[2]NA when control tower closed.
[3]Category E, 800-2½.

NEW BRAUNFELS, TX
NEW BRAUNFELS
RGNL (BAZ).....**RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 17
RNAV (GPS) Rwy 31
RNAV (GPS) Rwy 35
NA when local weather not available.

NAME ALTERNATE MINIMUMS

ODESSA, TX
ODESSA-SCHLEMEYER
FIELD (ODO)..... **RNAV (GPS) Rwy 11**
RNAV (GPS) Rwy 20
RNAV (GPS) Rwy 29
VOR-A
NA when local weather not available.

PECOS, TX
PECOS MUNI (PEQ)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
NA when local weather not available.

PLEASANTON, TX
PLEASANTON
MUNI (PEZ)..... **RNAV (GPS) Rwy 34**
NA when local weather not available.

PORT ARANSAS, TX
MUSTANG
BEACH (RAS)..... **RNAV (GPS) Rwy 12**
RNAV (GPS) Rwy 30
NA when local weather not available.

PORT ISABEL, TX
PORT ISABEL-CAMERON
COUNTY (PIL)..... **RNAV (GPS) Rwy 13**
NA when local weather not available.

ROBSTOWN, TX
NUECES
COUNTY (RBO)..... **RNAV (GPS) Rwy 13**
RNAV (GPS) Rwy 31
NA when local weather not available.

ROCKPORT, TX
ARANSAS
COUNTY (RKP)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 18
RNAV (GPS) Rwy 32
RNAV (GPS) Rwy 36
VOR or TACAN-A[1]
NA when local weather not available.
[1]Category C, 800-2¼.

ROCKSPRINGS, TX
EDWARDS
COUNTY (ECU)..... **VOR Rwy 14**
NA when local weather not available.

NAME ALTERNATE

SAN ANGELO, TX
SAN ANGELO RGNL/
MATHIS FIELD (SJT)..... **ILS Y or LOC Y Rwy 3**[12]
NDB Rwy 3[34]
RADAR-1[35]
RNAV (GPS) Rwy 3[5]
RNAV (GPS) Rwy 18[5]
RNAV (GPS) Rwy 21[5]
RNAV (GPS) Rwy 36[5]
VOR Rwy 21[4]
VOR/DME or TACAN Rwy 3[5]
[1]LOC, Category D, 800-2½, Category E, 800-2¾.
[2]LOC, NA when control tower closed.
[3]NA when control tower closed.
[4]Category D, 800-2½.
[5]Category D, 800-2½, Category E, 800-2¾.

SAN ANTONIO, TX
BOERNE STAGE
FIELD (5C1)..... **RNAV (GPS) Rwy 17**
RNAV (GPS) Rwy 35
NA when local weather not available.

SAN ANTONIO
INTL (SAT)..... **ILS or LOC Rwy 13R**[1]
RNAV (GPS) Y Rwy 13R[2]
[1]ILS, 700-2.
[2]Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

SINTON, TX
ALFRED C BUBBA
THOMAS (T69)..... **RNAV (GPS) Rwy 14**
RNAV (GPS) Rwy 32
VOR Rwy 14
NA when local weather not available.

TAYLOR, TX
TAYLOR
MUNI (T74)..... **RNAV (GPS) Rwy 17**
VOR Rwy 17
NA when local weather not available.

TEMPLE, TX
DRAUGHON-MILLER CENTRAL
TEXAS RGNL (TPL)..... **RNAV (GPS) Rwy 15**
RNAV (GPS) Rwy 33
Category D, 800-2¼.

UVALDE, TX
GARNER FIELD (UVA)..... **RNAV (GPS) Rwy 33**
NA when local weather not available.

WACO, TX
TSTC WACO (CNW)..... **NDB Rwy 35R**[12]
RNAV (GPS) Rwy 17L
RNAV (GPS) Rwy 35R
NA when local weather not available.
[1]NA when Waco Rgnl approach control closed.
[2]Category D, 800-2¼.

NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE
WACO, TX (CON'T)			
MC GREGOR EXECUTIVE (PWG)……	**RNAV (GPS) Rwy 17** **RNAV (GPS) Rwy 35** NA when local weather not available.		
WACO RGNL (ACT)……	**ILS or LOC Rwy 19**[1] **RNAV (GPS) Rwy 1** **RNAV (GPS) Rwy 14** **RNAV (GPS) Rwy 19** **RNAV (GPS) Rwy 32** **VOR/DME Rwy 32** NA when local weather not available. [1]NA when control tower closed.		
WESLACO, TX			
MID VALLEY (TXW)……	**RNAV (GPS) Rwy 14** NA when local weather not available. Category D, 900-2¾.		
WINK, TX			
WINKLER COUNTY (INK)……	**RNAV (GPS) Rwy 13**[1] **RNAV (GPS) Rwy 31**[1] **VOR Rwy 13** NA when local weather not available. [1]Category C, 800-2¼.		

RADAR INSTRUMENT APPROACH MINIMUMS

BIGGS AAF (KBIF), Fort Bliss, TX Amdt 7A (20198) (USA) ELEV **3947**

RADAR - 124.15 307.0 T A NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
ASR[1]	22		AB	**4460**-¾	513	(600-¾)
			CDE	**4460**-1	513	(600-1)
C CIR[2]	22		AB	**4460**-1	513	(600-1)
			C	**4540**-1½	593	(600-1½)
			DE	**4540**-2	593	(600-2)

[1]When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1⅜ miles.
[2]CAT DE circling west of Rwy 4-22 NA.

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
21056

N1

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP), Corpus Christi, TX

Amdt 1 16JUL20 (20310) (USN) ELEV **19**

RADAR - (E) 6835 124.65 270.8 284.6 337.2 354.8

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[1]	13R[2 7]	3.0°/42/777	ABCDE	**113**-¼	100	(100-¼)
	18[7]	3.0°/39/703	ABCDE	**119**-½	100	(100-½)
	31L[9]	3.0°/43/820	ABCDE	**118**-½	100	(100-½)
	36[8]	3.0°/45/831	ABCDE	**119**-½	100	(100-½)
PAR W/O GS[1]	13R[3]		ABCDE	**360**-¾	347	(400-¾)
	18		ABCDE	**340**-1⅛	321	(400-1⅛)
	31L		AB	**420**-1	402	(500-1)
			CDE	**420**-1⅛	402	(500-1⅛)
	36		AB	**420**-1	401	(500-1)
			CDE	**420**-1⅛	401	(500-1⅛)
PAR W/O GS SIDESTEP[1 5]	13L		AB	**360**-1	341	(400-1)
			C	**360**-1½	341	(400-1½)
			DE	**360**-2	341	(400-2)
	31R		AB	**420**-1	401	(500-1)
			C	**420**-1½	401	(500-1½)
			DE	**420**-2	401	(500-2)
ASR	18		AB	**400**-1	381	(400-1)
			CDE	**400**-1⅛	381	(400-1⅛)
	13R[4 10]		AB	**420**-¾	407	(500-¾)
			CDE	**420**-1	407	(500-1)
	13L		AB	**420**-1	401	(500-1)
			CDE	**420**-1⅛	401	(500-1⅛)
	4[11]		AB	**500**-1	483	(500-1)
			CDE	**500**-1⅜	483	(500-1⅜)
	31L		AB	**500**-1	482	(500-1)
			CDE	**500**-1⅜	482	(500-1⅜)
	31R		AB	**500**-1	481	(500-1)
			CDE	**500**-1⅜	481	(500-1⅜)
	36		AB	**500**-1	481	(500-1)
			CDE	**500**-1⅜	481	(500-1⅜)
CIR[6]	All Rwys		AB	**500**-1	481	(500-1)
			C	**540**-1½	521	(600-1½)
			D	**620**-2	601	(700-2)
			E	**620**-2¼	601	(700-2¼)

(CONTINUED ON NEXT PAGE)

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP) (CON'T) TX

[1]No-NOTAM MP: PAR Mon 1300-1700Z++.
[2]When ALS inop, increase vis CAT ABCDE to ½ mile.
[3]When ALS inop, increase vis CAT ABCDE to 1⅛ miles.
[4]When ALS inop increase vis CAT AB to 1 mile, CAT CDE to 1⅛ miles.
[5]Circling from Sidestep NA. Sidestep from PAR W/O GS only; NA prior to 2 miles from thld.
[6]Circling authorized only from ASR and PAR W/O GS. When circling from PAR W/O GS increase vis CAT AB vis to 1⅛ miles.
[7]CAUTION: TCH (42 feet) is less than the min CAT II Precision TCH (50 feet).
[8]CAUTION: TCH (45 feet) is less than the min CAT II Precision TCH (50 feet).
[9]CAUTION: TCH (43 feet) is less than the min CAT II Precision TCH (50 feet).
[10]SDF at 2 NM from thld, 660' min.
[11]SDF at 3 NM from thld, 980' min.

EL PASO, TX

Amdt 15C, 25FEB21 (21056) (FAA) ELEV **3962**

EL PASO INTL (ELP)

RADAR-1 124.25 298.85 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	22		AB	**4440**/24	490	(500-½)	CDE	**4440**/50	490	(400-1)
	26L		ABCDE	**4400**-¾	438	(500-¾)				
	4		AB	**4400**/55	477	(500-1¼)	CDE	**4400**-1⅜	477	(500-1⅜)
C CIRCLING	ALL RWY		AB	**4440**-1	478	(500-1)				
			C	**4460**-1½	498	(500-1½)	D	**4680**-2¼	718	(800-2¼)
			E	**4700**-2½	738	(800-2½)				

Circling NA for CATS D and E W of Rwy 4-22.
For inoperative ALS, increase S-22 CAT C/D/E visibility to 1 3/8 SM, increase S-26L CAT A/B visibility to 1 SM, and CAT E to 1 1/4 SM.
Caution: steeply rising terrain 4.5 NM west of airport.

FORT HOOD/KILLEEN, TX

Orig-A, 24MAY18 (18144) (FAA) ELEV **1015**

ROBERT GRAY AAF (GRK)

RADAR-1 - 120.075 323.15 T A NA

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	33		AB	**1460**-¾	465	(500-¾)	CDE	**1460**-1	465	(500-1)
	15		AB	**1520**/40	505	(600-¾)	CDE	**1520**/55	505	(600-1¼)
C CIRCLING	ALL RWY		AB	**1540**-1¼	525	(600-1¼)	C	**1560**-1½	545	(600-1½)
			D	**1620**-2	605	(700-2)	E	**1740**-2½	725	(800-2½)

Circling NA W of Rwy 15-33.
For inoperative ALS, increase ASR S-15 and ASR S-33 CATS C/D/E visibility to 1⅜ mile.

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RADAR INSTRUMENT APPROACH MINIMUMS
RADAR MINS
21056
N3

FORT HOOD/KILLEEN, TX Orig-A, 24MAY18 (18144) (FAA) ELEV **1015**

ROBERT GRAY AAF (GRK)

RADAR-2 - 120.075 323.15 T A NA

	RWY	GS/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
PAR	33	3.00°/53/973	ABCDE	**1208**-½	213	(200-½)
	15	3.00°/51/1062	ABCDE	**1215**/24	200	(200-½)

For inoperative ALS, increase PAR S-15 CAT E visibility to RVR 4000 and PAR S-33 CAT E visibility to ¾ SM.
Rwy 15 VGSI and PAR glidepath not coincident (VGSI Angle 3.00/TCH 71).
Rwy 33 VGSI and PAR glidepath not coincident (VGSI Angle 2.77/TCH 52).

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RADAR INSTRUMENT APPROACH MINIMUMS

RADAR MINS
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N4

RADAR INSTRUMENT APPROACH MINIMUMS

KINGSVILLE NAS (KNQI), Kingsville,TX Amdt 1 05NOV20 (20310) (USN) ELEV **50**
RADAR[1] **- (E)** 128.45x 300.4x 305.2x 310.8x 322.0x 325.2x 358.0x 363.6x 384.4x

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATh/ HAA	CEIL-VIS
PAR[2]	35R[3 4]	3.0°/33/618	ABCDE	**148**-¼	100	(100-¼)
	13L[5]	3.0°/34/633	ABCDE	**149**-½	100	(100-½)
	13R[6]	3.0°/31/600	ABCDE	**150**-½	100	(100-½)
	17L[4]	3.0°/33/613	ABCDE	**149**-½	100	(100-½)
	17R[5]	3.0°/34/649	ABCDE	**149**-½	100	(100-½)
	31L[6]	3.0°/31/578	ABCDE	**147**-½	100	(100-½)
	31R[7]	3.0°/37/672	ABCDE	**144**-½	100	(100-½)
PAR W/O GS[2]	35R[8]		ABCDE	**380**-⅝	332	(400-⅝)
	17L[9]		ABCDE	**360**-1⅛	311	(400-1⅛)
	17R[9]		ABCDE	**360**-1⅛	311	(400-1⅛)
	31L[10]		ABCDE	**360**-1⅛	313	(400-1⅛)
	31R[10]		ABCDE	**380**-1⅛	336	(400-1⅛)
	13L		ABCDE	**460**-1⅛	411	(500-1⅛)
	13R		AB	**480**-1⅛	430	(500-1⅛)
			CDE	**480**-1¼	430	(500-1¼)
ASR	35R[11]		AB	**420**-½	372	(400-½)
			CDE	**420**-⅝	372	(400-⅝)
	17L[12]		ABCDE	**400**-1	351	(400-1)
	17R[12]		ABCDE	**400**-1	351	(400-1)
	31L[12]		ABCDE	**380**-1	333	(400-1)
	31R[12]		ABCDE	**380**-1	336	(400-1)
	35L		ABCDE	**420**-1	372	(400-1)
	13L[12]		AB	**460**-1	411	(500-1)
			CDE	**460**-1⅛	411	(500-1⅛)
	13R[12]		AB	**460**-1	410	(500-1)
			CDE	**460**-1⅛	410	(500-1⅛)
CIR[13]	ALL RWYS[14]		AB	**540**-1	490	(500-1)
			C	**760**-2	710	(800-2)
			D	**760**-2¼	710	(800-2¼)
			E	**800**-2¾	750	(800-2¾)

[1]Use landing/taxi lights when conducting apch during VMC.
[2]No NOTAM MP: PAR 1300-1700Z++Mon. Maint conducted next bus day if clsd on Mon.
[3]When ALS inop, increase vis to ½ mile.
[4]CAUTION: TCH (33 ft) is less than the min CAT II Precision TCH (50 ft).
[5]CAUTION: TCH (34 ft) is less than the min CAT II Precision TCH (50 ft).
[6]CAUTION: TCH (31 ft) is less than the min CAT II Precision TCH (50 ft).
[7]CAUTION: TCH (37 ft) is less than the min CAT II Precision TCH (50 ft).
[8]When ALS inop, increase vis to 1⅛ mile.
[9]Step Down Fix at 3 NM from RPI, cross at or above 1100 ft.
[10]Step Down Fix at 2 NM from RPI, cross at or above 740 ft.
[11]When ALS inop, increase vis to 1 mile.
[12]Step Down Fix at 2 NM from rwy, cross at or above 720 ft.
[13]Circling authorized only from PAR W/O GS and ASR.
[14]When circling from PAR W/O GS increase CAT AB vis to 1⅛ miles.
[12]CAUTION: TCH (37 ft) is less than the min CAT II Precision TCH (50 ft).

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RADAR INSTRUMENT APPROACH MINIMUMS

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N5

MIDLAND, TX

Amdt 7A, 30DEC20 (20366) (FAA) ELEV **2872**

MIDLAND INTL AIR AND SPACE PORT (MAF)

RADAR-1 124.6 290.4 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	28		AB	**3300**-¾	442	(500-¾)	CDE	**3300**-1	442	(500-1)
	34L		AB	**3320**-1	462	(500-1)	CDE	**3320**-1⅜	462	(500-1⅜)
	4		AB	**3360**-1	509	(500-1)	CDE	**3360**-1⅜	509	(500-1⅜)
	16R		AB	**3400**-1	528	(600-1)	CDE	**3400**-1½	528	(600-1½)
	10		AB	**3480**/24	611	(700-½)	CDE	**3480**-1⅜	611	(700-1⅜)
	22		AB	**3540**-1	685	(700-1)	CDE	**3540**-2	685	(700-2)
C CIRCLING	ALL RWY		AB	**3540**-1	668	(700-1)	C	**3540**-1¾	668	(700-1¾)
			D	**3540**-2	668	(700-2)	E	**3600**-2½	728	(800-2½)

For inoperative ALS, increase ASR-10 Cat C/D/E visibility to 1¾ mile.
For inoperative ALS, increase ASR-28 Cat C/D/E visibility to 1⅜ SM.
Night Landing: Rwy 16L NA.
When control tower closed, ASR NA.

SAN ANGELO, TX

Amdt 1B, 28FEB19 (19059) (FAA) ELEV **1919**

SAN ANGELO RGNL/MATHIS FIELD (SJT)

RADAR-1 125.35 354.1 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	36		AB	**2460**-1	541	(600-1)	CDE	**2460**-1⅝	541	(600-1⅝)
	18		AB	**2500**-1	592	(600-1)	CDE	**2500**-1¾	592	(600-1¾)
C CIRCLING	ALL RWY		AB	**2500**-1	641	(700-1)	C	**2500**-1¾	641	(700-1¾)
			D	**2700**-2½	781	(800-2½)	E	**2700**-2¾	781	(800-2¾)

Circling NA for Cat E west of Rwy 18-36.
When control tower closed, ASR NA.
Rwy 36 helicopter visibility reduction below ¾ SM not authorized.

SC-3, 25 FEB 2021 to 22 APR 2021

WACO, TX

Amdt 1A, 11FEB10 (10042) (FAA) ELEV **592**

MC GREGOR EXECUTIVE (PWG)

RADAR-1 127.65 352.0 T

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	17		AB	**1020**-1	430	(500-1)	C	**1020**-1¼	430	(500-1¼)
			D	**NA**						
CIRCLING	ALL RWY		A	**1040**-1	448	(500-1)	B	**1060**-1	468	(500-1)
			C	**1060**-1½	468	(500-1½)	D	**NA**		

WACO, TX

Amdt 4, 11FEB10 (10042) (FAA) ELEV **470**

TSTC WACO (CNW)

RADAR-1 127.65 227.125 T A

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	17L		AB	1080-½	611	(700-½)	C	1080-1¼	611	(700-1¼)
			D	1080-1½	611	(700-1½)				
CIRCLING	ALL RWY		AB	1080-1	610	(700-1)	C	1080-1¾	610	(700-1¾)
			D	1080-2	610	(700-2)				

When Waco Regional approach control closed, ASR not authorized.

WACO, TX

Amdt 4, 23SEP10 (14317) (FAA) ELEV **516**

WACO RGNL (ACT)

RADAR-1 127.65 227.125 T

	RWY	GP/TCH/RPI	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS	CAT	DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	19		ABC	**880**/24	376	(400-½)	D	**880**/50	376	(400-1)
	1		ABC	**860**-1	351	(400-1)	D	**860**-1¼	351	(400-1¼)
	14		AB	**920**-1	407	(500-1)	CD	**920**-1¼	407	(500-1¼)
	32		AB	**1020**-1	504	(600-1)	CD	**1020**-1½	504	(600-1½)
CIRCLING	ALL RWY		AB	**1020**-1	504	(600-1)	C	**1020**-1½	504	(600-1½)
			D	**1080**-2	564	(600-2)				

For inoperative MALSR increase S-19 CAT D visibility to RVR 6000.
When control tower closed, ASR NA.

14261

THERE ARE NO LAND AND HOLD SHORT OPERATIONS (LAHSO) FOR SC-3 VOLUME

SC-3, 25 FEB 2021 to 22 APR 2021

14261

20254

HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION*
AUSTIN, TX		
AUSTIN-BERGSTROM INTL (AUS)	HS 1	E service road, Traffic on crossing Twy G and Twy H.
SAN MARCOS RGNL (HYI)	HS 1	Int of Rwy 26 and Rwy 35.
	HS 2	Int of Rwy 31, Twy F and Rwy 35.
EL PASO, TX		
EL PASO INTL (ELP)	HS 1	Rwy 08R apch considered active, do not proceed on or cross without ATC clnc especially when taxiing to Rwy 04 via the terminal ramp.
HARLINGEN, TX		
VALLEY INTL (HRL)	HS 1	Rwy 31 and Rwy 35R apch ends are closely aligned.
MC ALLEN, TX		
MC ALLEN MILLER INTL (MFE)	HS 1	Rwy 14 hold short marking located in a non-standard location.
MIDLAND, TX		
MIDLAND INTL AIR AND SPACE PORT (MAF)	HS 1	Twy B and Twy P merge.
	HS 2	Area not visible from twr.
SAN ANGELO, TX		
SAN ANGELO RGNL / MATHIS FIELD (SJT)	HS 1	Rwy 18-36 at the int of Rwy 09-27.
	HS 2	Rwy 18-36 at the int of Twy D.
	HS 3	Twy B close proximity to Rwy 18-36 and Rwy 03-21.
SAN ANTONIO, TX		
LACKLAND AFB (KELLY FLD ANNEX) (KSKF)	HS 1	The unpaved portion of the north overrun.
	HS 2	Int of Rwy 16-34, Twy D, and Twy G.
SAN ANTONIO INTL (SAT)	HS 1	Rwy 31L hold short line on Rwy 04.
	HS 2	Twy G and Twy N in close proximity of Rwy 31L.

*See appropriate Chart Supplement HOT SPOT table for additional information.

20254

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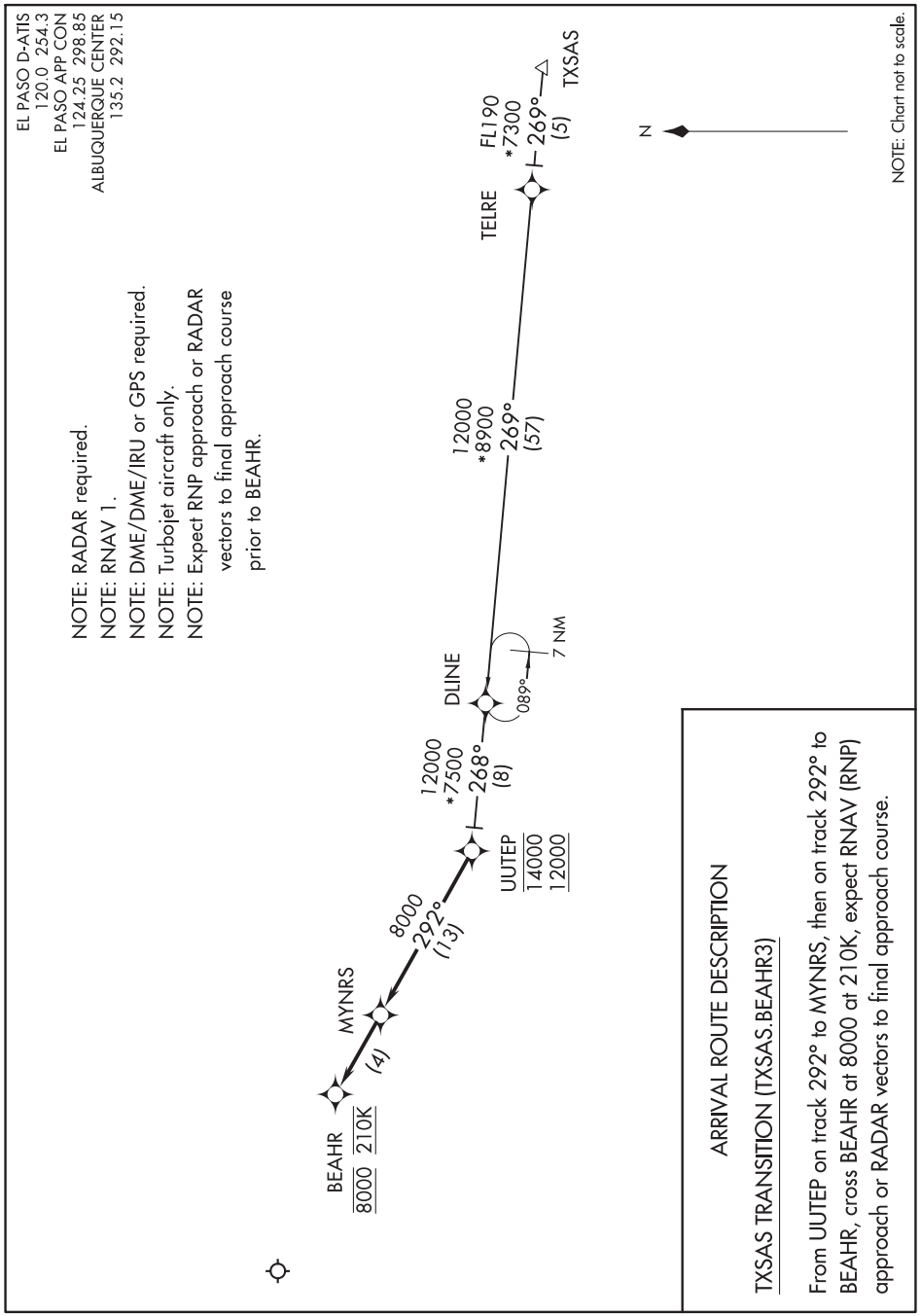
(BEAHR.BEAHR3) 20030

BEAHR THREE ARRIVAL (RNAV)

AL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

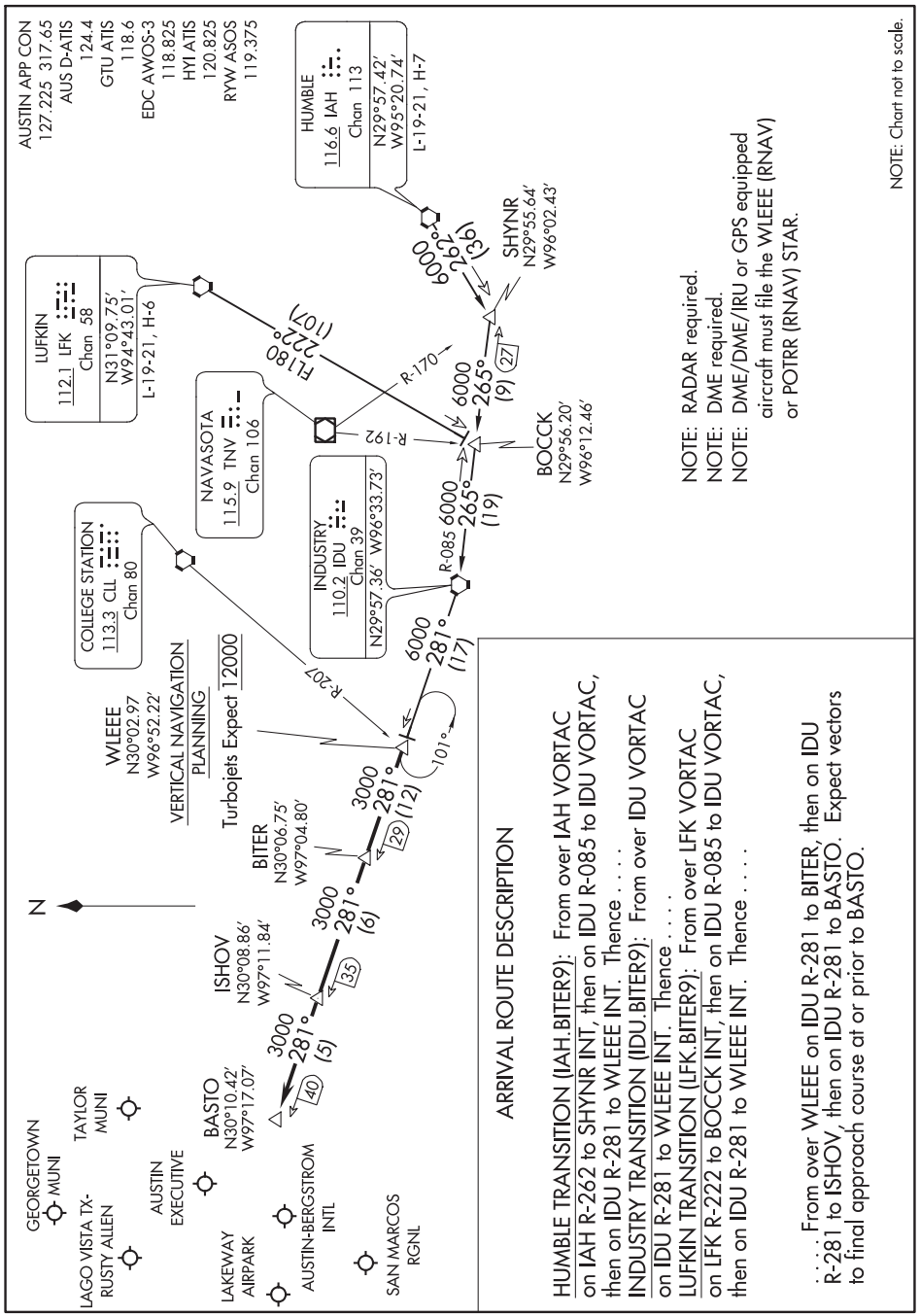
BEAHR THREE ARRIVAL (RNAV)

(BEAHR.BEAHR3) 03APR14

EL PASO, TEXAS
EL PASO INTL (ELP)

BITER NINE ARRIVAL

AUSTIN, TEXAS



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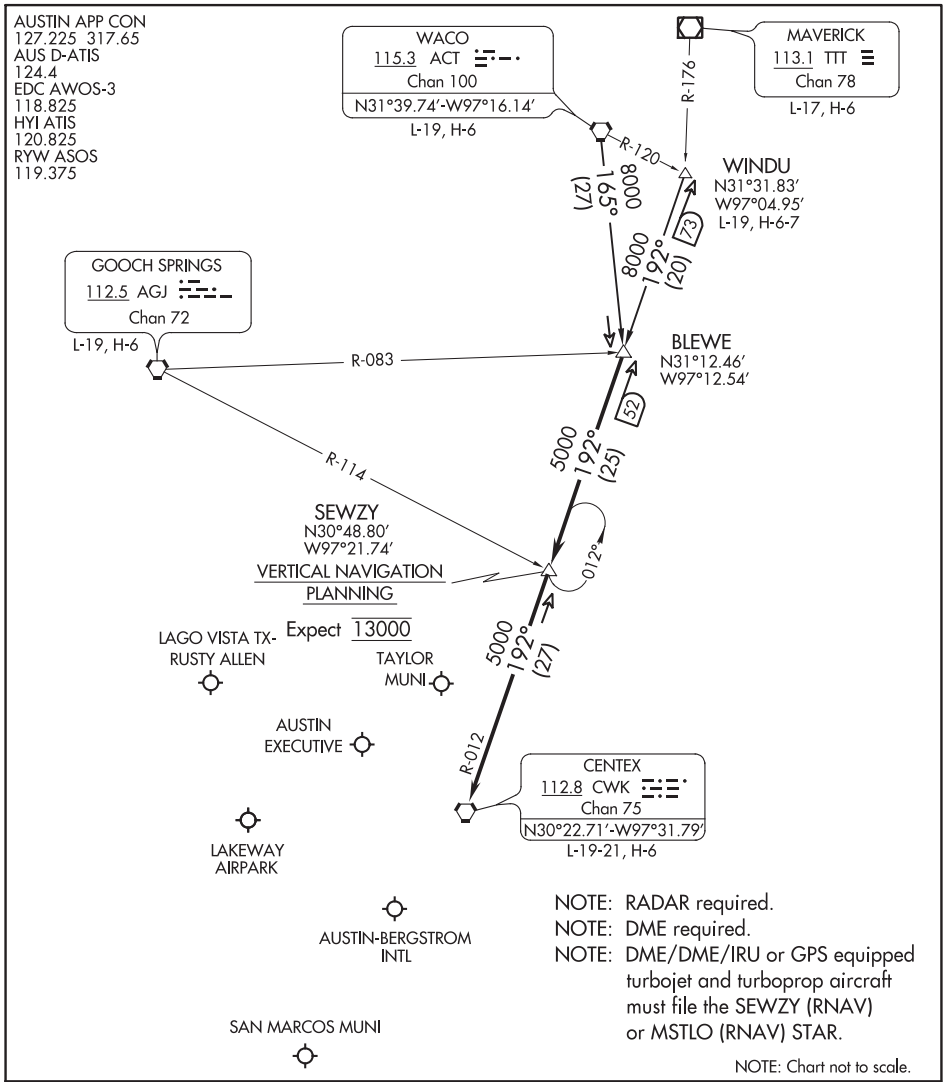
BITER NINE ARRIVAL
AUSTIN, TEXAS

(BLEWE.BLEWE4) 20198

AL-556 (FAA)

BLEWE FOUR ARRIVAL

AUSTIN, TEXAS



ARRIVAL ROUTE DESCRIPTION

WACO TRANSITION (ACT.BLEWE4): From over ACT VORTAC on ACT R-165 to BLEWE INT. Thence . . . .

WINDU TRANSITION (WINDU.BLEWE4): From over WINDU INT on CWK R-012 to BLEWE INT. Thence. . . .

. . . .From over BLEWE on CWK R-012 to SEWZY, then on CWK R-012 to CWK VORTAC. Expect vectors to final approach course at or prior to CWK VORTAC.

BLEWE FOUR ARRIVAL

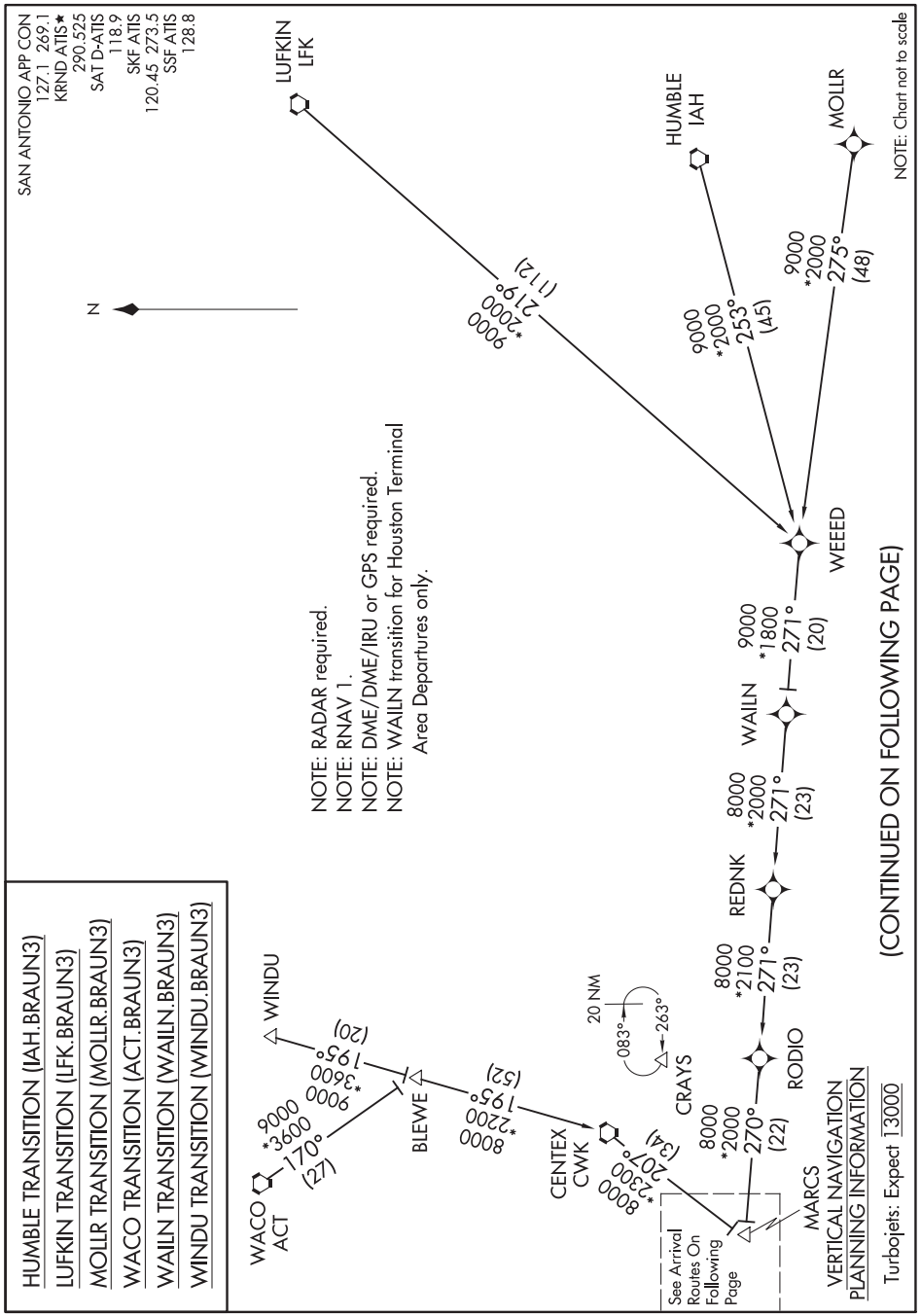
AUSTIN, TEXAS

(BLEWE.BLEWE4) 07DEC17

SC-3, 25 FEB 2021 to 22 APR 2021

BRAUN THREE ARRIVAL (RNAV) Transition Routes

SAN ANTONIO, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

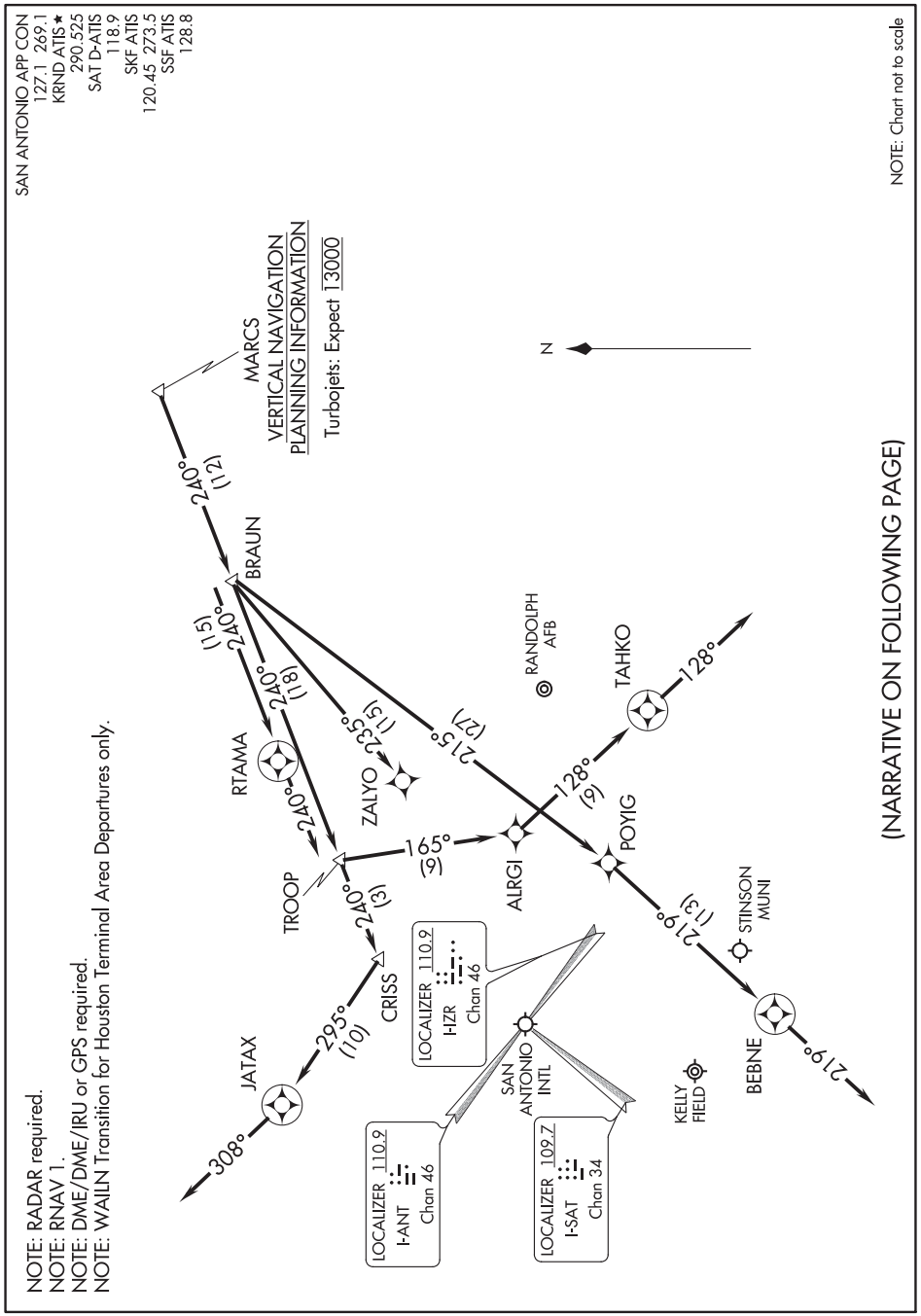
BRAUN THREE ARRIVAL (RNAV) Transition Routes

SAN ANTONIO, TEXAS

(MARCS.BRAUN3) 20198 AL-369 (FAA)

BRAUN THREE ARRIVAL (RNAV) Arrival Routes

SAN ANTONIO, TEXAS



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: WAILN Transition for Houston Terminal Area Departures only.

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BRAUN THREE ARRIVAL (RNAV) Arrival Routes

SAN ANTONIO, TEXAS

(MARCS.BRAUN3) 26MAR20

ARRIVAL ROUTE DESCRIPTION

SAN ANTONIO INTL (KSAT):

From MARCS on track 240° to BRAUN.

LANDING RUNWAY 4:
From BRAUN on track 215° to POYIG, then on track 219° to BEBNE, then on track 219°. Expect RADAR vectors to final approach course.
LANDING RUNWAYS 13L/R:
From BRAUN on track 240° to TROOP, then on track 240° to CRISS, then on track 295° to JATAX, then on track 308°. Expect RADAR vectors to final approach course.
LANDING RUNWAY 22:
From BRAUN on track 235° to ZALYO. Expect RNAV (RNP) Rwy 22, or expect vectors to final approach course.
LANDING RUNWAYS 31L/R:
From BRAUN on track 240° to TROOP, then on track 165° to ALRGI, then on track 128° to TAHKO, then on track 128°. Expect RADAR vectors to final approach course.

ALL OTHER AIRPORTS:
From MARCS on track 240° to BRAUN, then on track 240° to RTAMA, then on track 240°. Expect RADAR vectors to final approach course.

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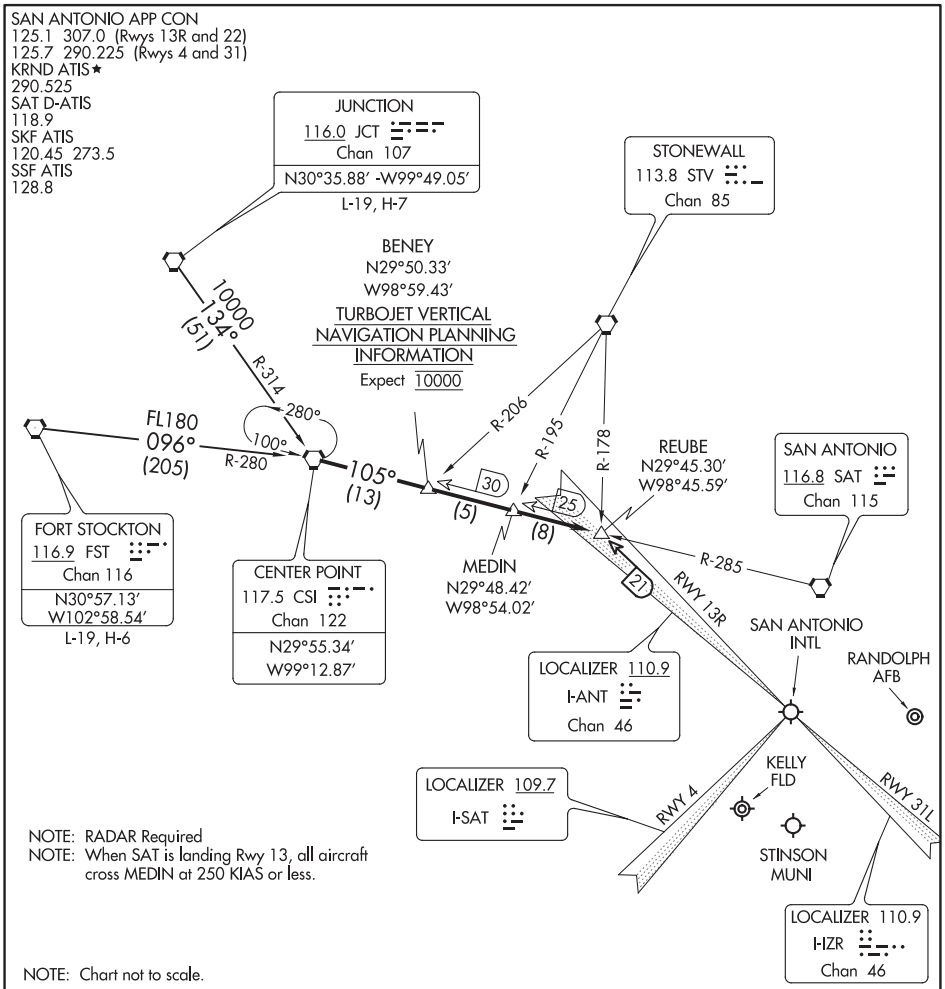
(CSI.CSI2) 20198

AL-369 (FAA)

CENTERPOINT TWO ARRIVAL

SAN ANTONIO, TEXAS



ARRIVAL ROUTE DESCRIPTION

FORT STOCKTON TRANSITION (FST.CSI2): From over FST VORTAC via FST R-096 and CSI R-280 to CSI VORTAC. Thence . . . .

JUNCTION TRANSITION (JCT.CSI2): From over JCT VORTAC via JCT R-134 and CSI R-314 to CSI VORTAC. Thence . . . .

. . . . From over CSI VORTAC on CSI R-105 to REUBE INT. Expect vectors to final approach course.

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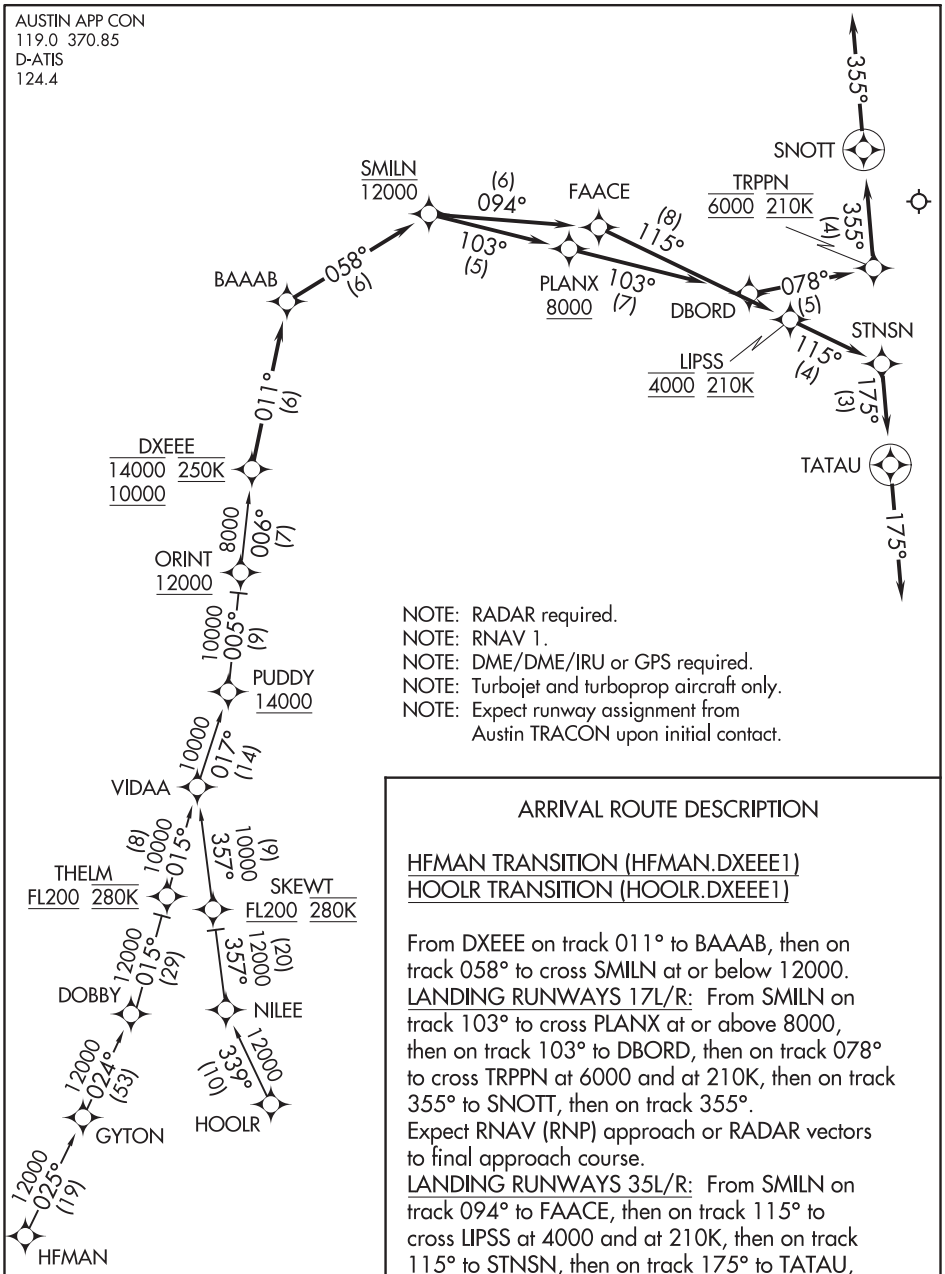
CENTERPOINT TWO ARRIVAL

SAN ANTONIO, TEXAS

(CSI.CSI2) 02MAR17

DXEEE ONE ARRIVAL (RNAV)

AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS



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DXEEE ONE ARRIVAL (RNAV)

AUSTIN, TEXAS
AUSTIN-BERGSTROM INTL (AUS)

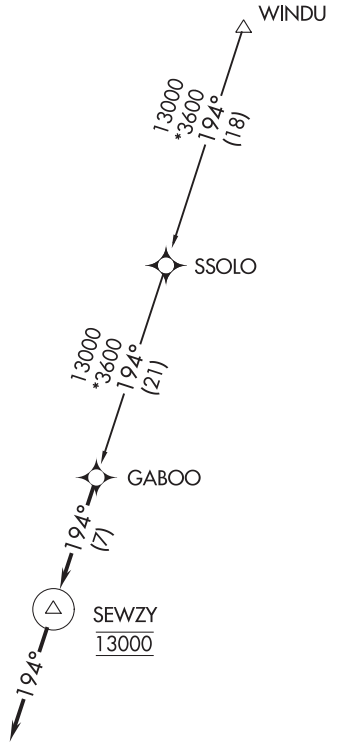
(GABOO.GABOO1) 20198

GABOO ONE ARRIVAL (RNAV)

AL-502 (FAA)

AUSTIN, TEXAS

AUSTIN APP CON
127.225 317.65
HYI ATIS ★
120.825
T74 AWOS-3PT
119.75



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

SSOLO TRANSITION (SSOLO.GABOO1)
WINDU TRANSITION (WINDU.GABOO1)

LANDING ALL AIRPORTS: From GABOO on track 194° to cross SEWZY at 13000, then on track 194°. Expect RADAR vectors to final approach course.

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HSKNS ONE ARRIVAL (RNAV)

EL PASO D-ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
135.875 292.15

N

DOHHN
FL240 280K

8000
*8000
083°
(34)

10 NM

263°

HSKNS
13000

7600
091°
(8)

FINAG
11000

6400
(9)

BECON
9000 210K

NOTE: Chart not to scale.

ARRIVAL ROUTE DESCRIPTION

DOHHN TRANSITION (DOHHN.HSKNS1)

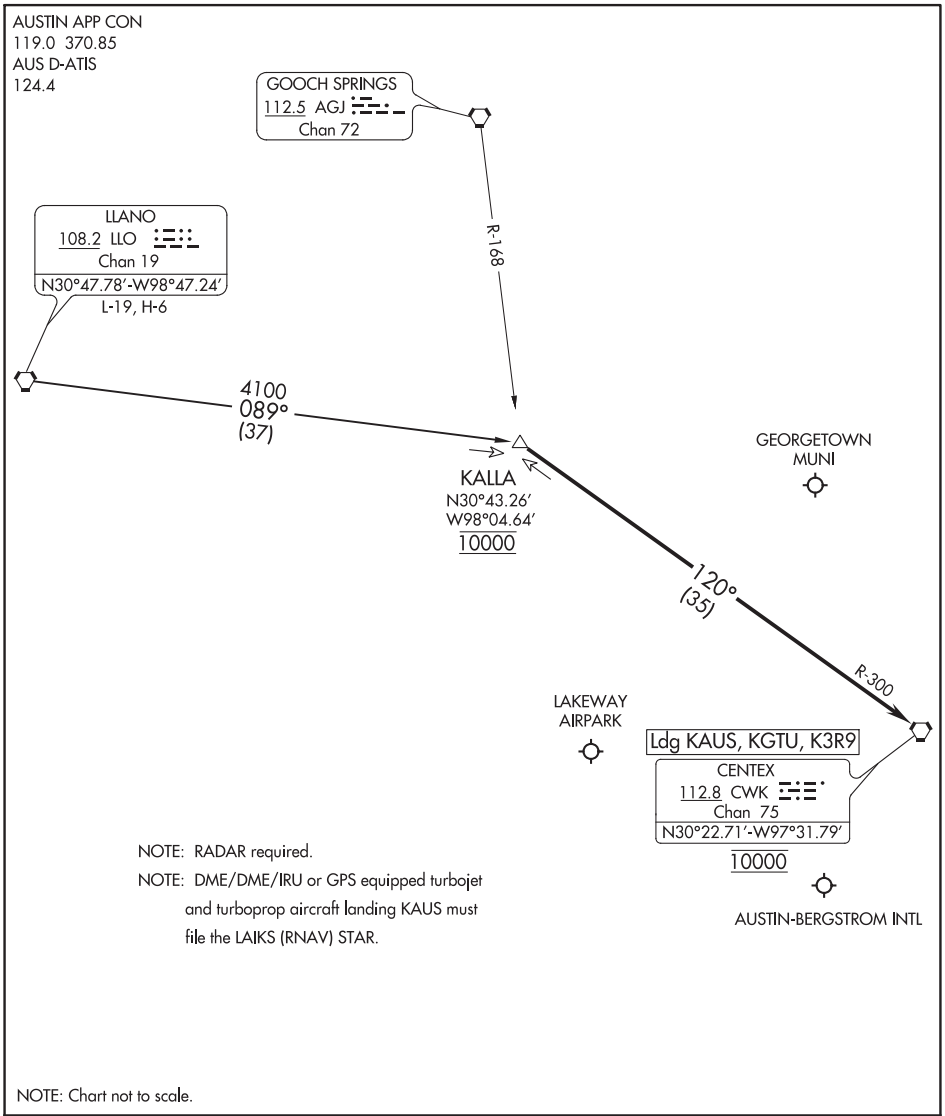
LANDING RWY 4: From HSKNS on track 091° to FINAG, cross FINAG at or above 11000, then on track 091° to BECON, cross BECON at 9000 at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: For Non-RNP aircraft, expect RADAR vectors to final approach course.
NOTE: Expect RNP approach clearance or RADAR vectors to final approach prior to BECON.

(KALLA.KALLA4) 20198 AL-556 (FAA)

KALLA FOUR ARRIVAL

AUSTIN, TEXAS



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ARRIVAL ROUTE DESCRIPTION

LLANO TRANSITION (LLO.KALLA4): From over LLO VORTAC on LLO R-089 to KALLA. Thence . . . .

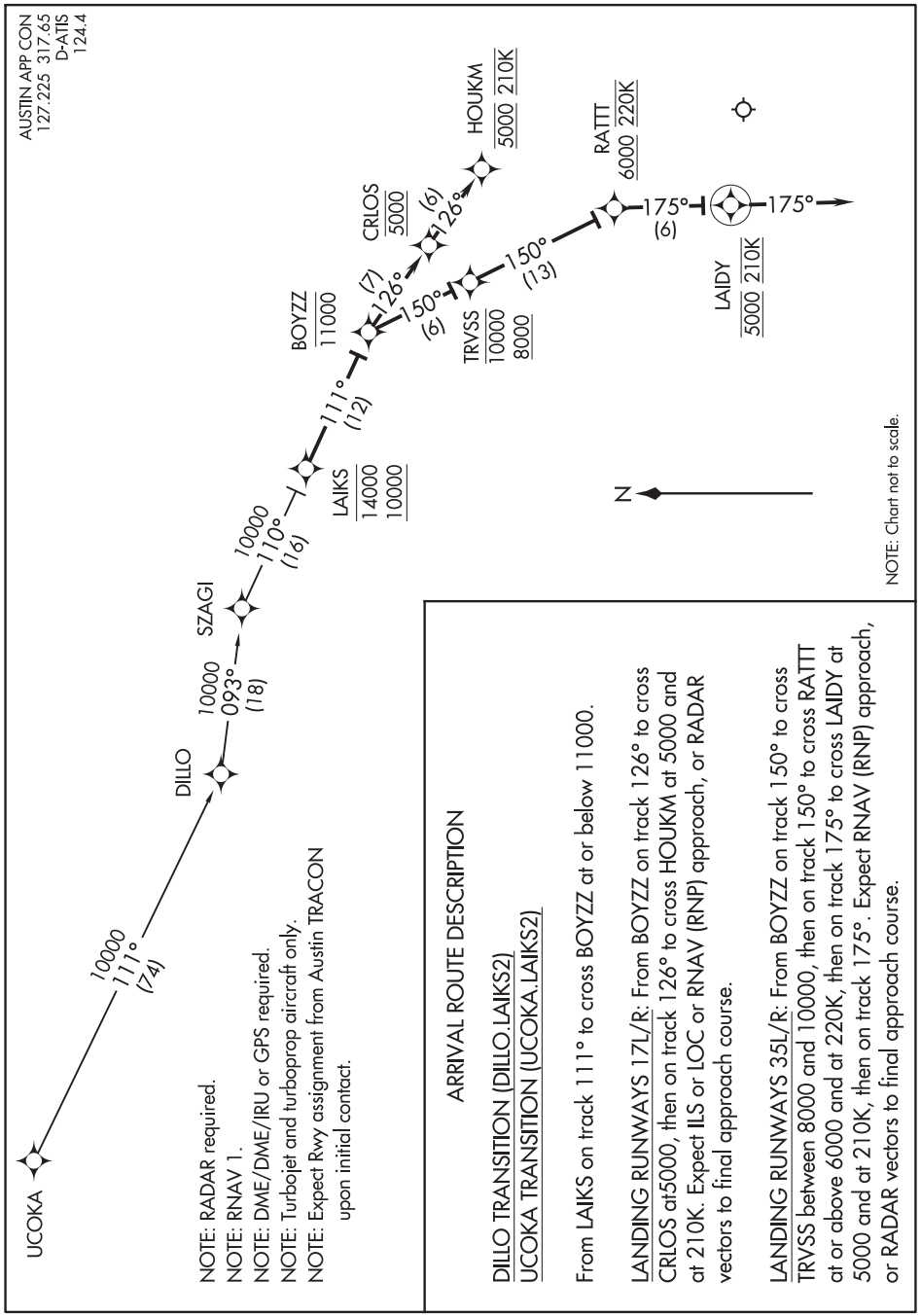
. . . . from over KALLA on CWK R-300 to cross CWK VORTAC at 10000. Expect vectors to final approach course.

KALLA FOUR ARRIVAL

AUSTIN, TEXAS

(KALLA.KALLA4) 15AUG19

LAIKS TWO ARRIVAL (RNAV)



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Expect Rwy assignment from Austin TRACON upon initial contact.

ARRIVAL ROUTE DESCRIPTION

DILLO TRANSITION (DILLO.LAIKS2)
UCOKA TRANSITION (UCOKA.LAIKS2)

From LAIKS on track 111° to cross BOYZZ at or below 11000.

LANDING RUNWAYS 17L/R: From BOYZZ on track 126° to cross CRLOS at5000, then on track 126° to cross HOUKM at 5000 and at 210K. Expect ILS or LOC or RNAV (RNP) approach, or RADAR vectors to final approach course.

LANDING RUNWAYS 35L/R: From BOYZZ on track 150° to cross TRVSS between 8000 and 10000, then on track 150° to cross RATTT at or above 6000 and at 220K, then on track 175° to cross LAIDY at 5000 and at 210K, then on track 175°. Expect RNAV (RNP) approach, or RADAR vectors to final approach course.

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LAIKS TWO ARRIVAL (RNAV)

AUSTIN, TEXAS

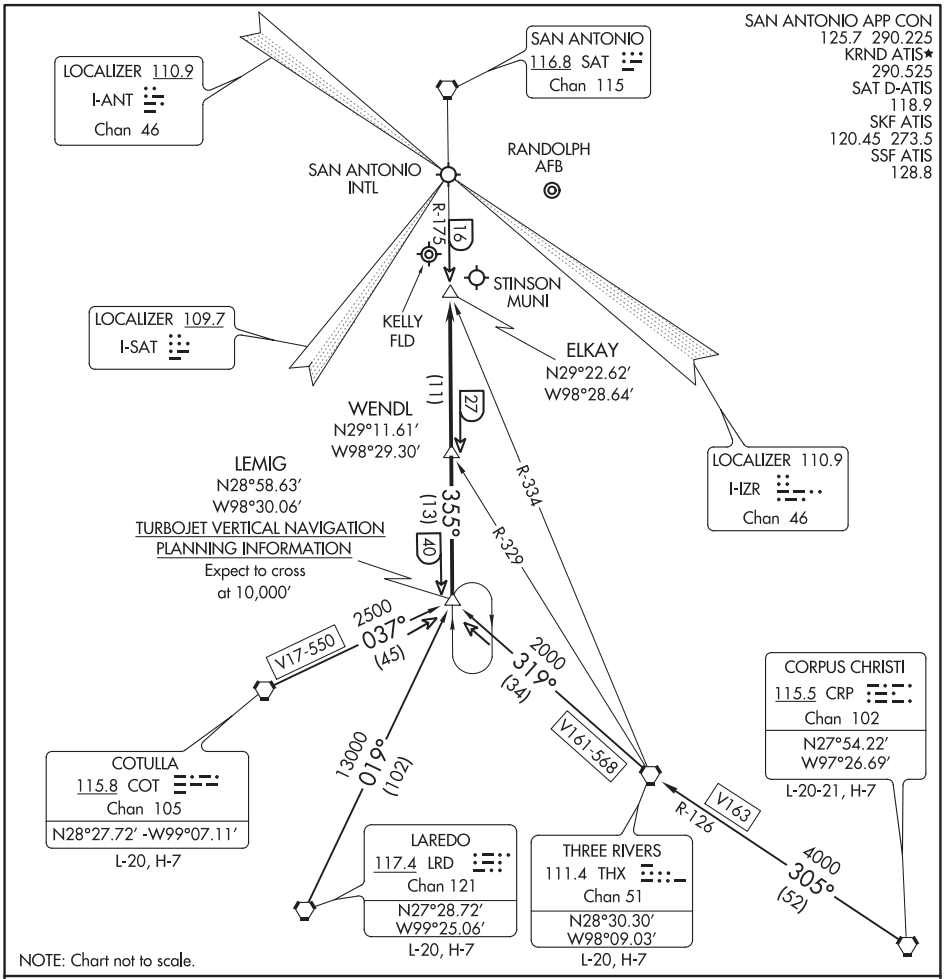
AUSTIN-BERGSTROM INTL (AUS)

(LEMIG.LEMIG1) 20254

AL-369 (FAA)

LEMIG ONE ARRIVAL

SAN ANTONIO, TEXAS



ARRIVAL ROUTE DESCRIPTION

CORPUS CHRISTI TRANSITION (CRP.LEMIG1): From over CRP VORTAC via CRP R-305 and THX R-126 to THX VORTAC, then via THX R-319 to LEMIG INT. Thence . . . .

COTULLA TRANSITION (COT.LEMIG1): From over COT VORTAC via COT R-037 to LEMIG INT. Thence . . . .

LAREDO TRANSITION (LRD.LEMIG1): From over LRD VORTAC via LRD R-019 to LEMIG INT. Thence . . . .

THREE RIVERS TRANSITION (THX.LEMIG1): From over THX VORTAC via THX R-319 to LEMIG INT. Thence . . . .

. . . . ALL AIRPORTS: From over LEMIG INT via SAT R-175 to ELKAY INT. Expect radar vectors to final approach course.

LEMIG ONE ARRIVAL

SAN ANTONIO, TEXAS

(LEMIG.LEMIG1) 21SEP89

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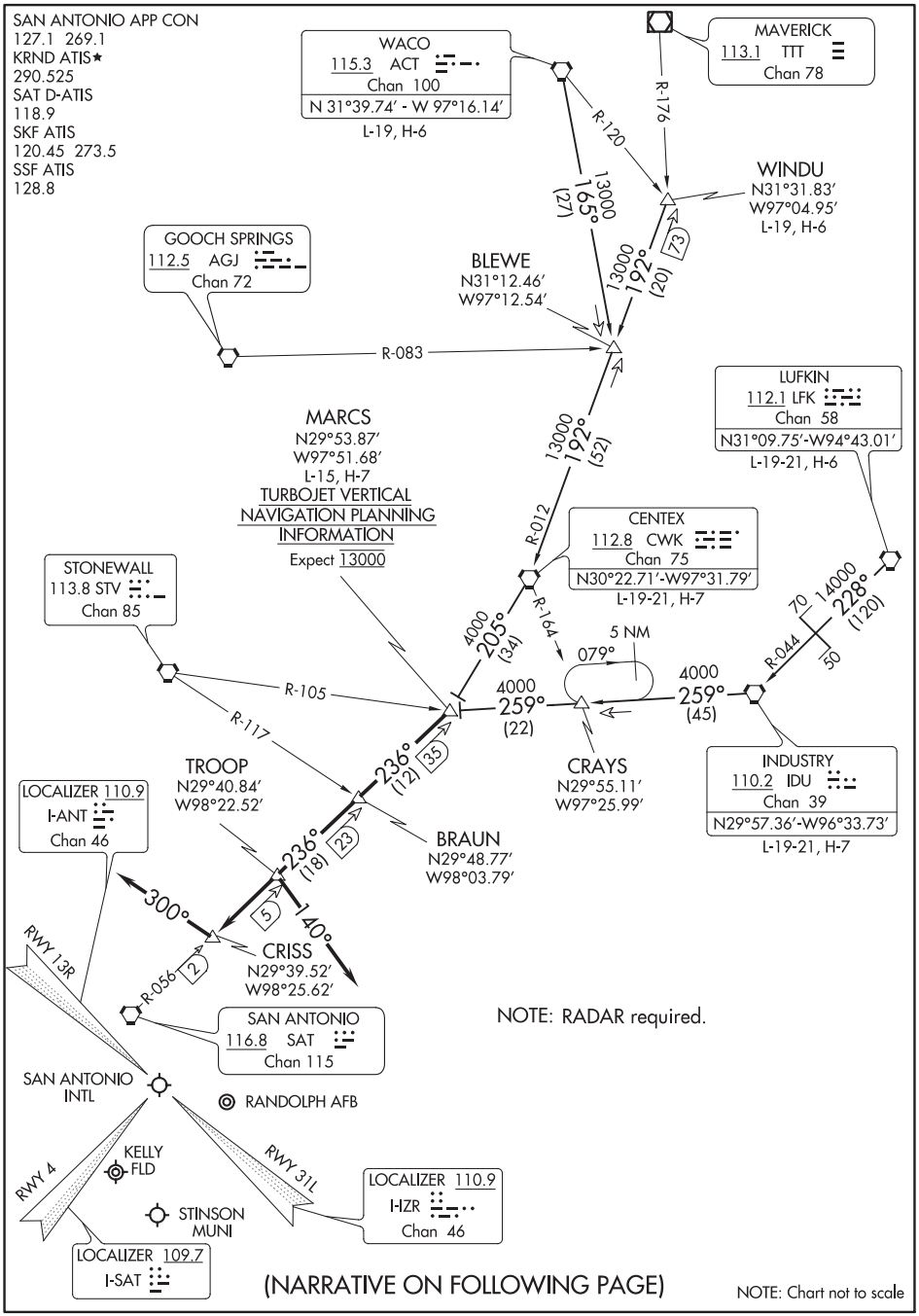
MARCS ONE ARRIVAL

SAN ANTONIO, TEXAS



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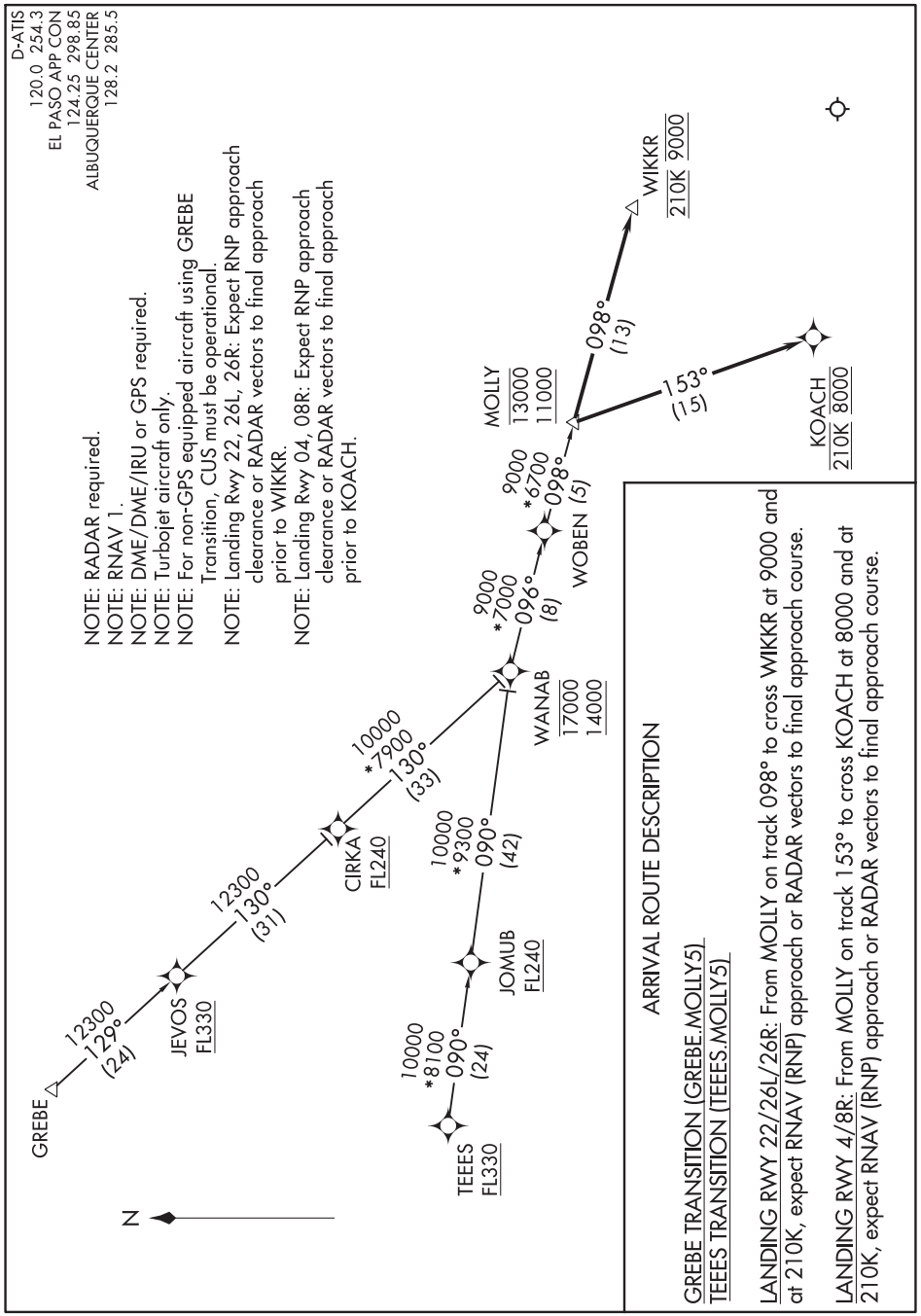
ARRIVAL ROUTE DESCRIPTION

CENTEX TRANSITION (CWK.MARCS1): From over CWK VORTAC via CWK R-205 to MARCS INT. Thence. . . .
INDUSTRY TRANSITION (IDU.MARCS1): From over IDU VORTAC via IDU R-259 to MARCS INT. Thence. . . .
LUFKIN TRANSITION (LFK.MARCS1): From over LFK VORTAC via LFK R-228 and IDU R-044 to IDU VORTAC, then via IDU R-259 to MARCS INT. Thence. . . .
WACO TRANSITION (ACT.MARCS1): From over ACT VORTAC via ACT R-165 to BLEWE INT, then via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT. Thence. . . .
WINDU TRANSITION (WINDU.MARCS1): From over WINDU INT via CWK R-012 to CWK VORTAC, then via CWK R-205 to MARCS INT. Thence. . . .

. . . . From over MARCS on SAT R-056 to BRAUN, then on SAT R-056 to TROOP. Thence....

SAN ANTONIO INTL (SAT):
LANDING RWY 13R: On SAT R-056 to CRISS. Depart CRISS heading 300° for vectors to final approach course.
LANDING RWY 31L: Depart TROOP heading 140° for vectors to final approach course.
LANDING ALL OTHER RUNWAYS: On SAT R-056 to CRISS. Expect vectors to final approach course.

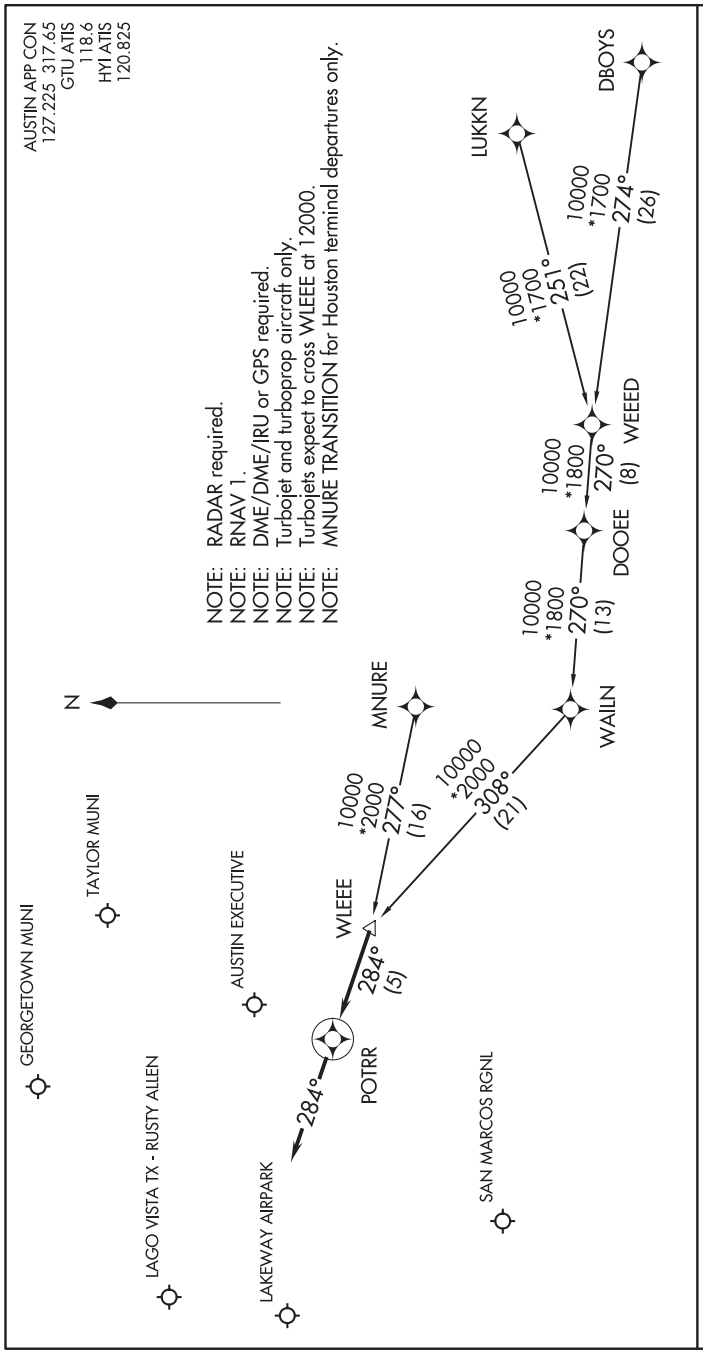
ALL OTHER AIRPORTS: On SAT R-056 to CRISS. Expect vectors to final approach course.


D-ATIS
120.0 254.3
EL PASO APP CON
124.25 298.85
ALBUQUERQUE CENTER
128.2 285.5
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet aircraft only.
NOTE: For non-GPS equipped aircraft using GREBE Transition, CUS must be operational.
NOTE: Landing Rwy 22, 26L, 26R: Expect RNP approach clearance or RADAR vectors to final approach prior to WIKKR.
NOTE: Landing Rwy 04, 08R: Expect RNP approach clearance or RADAR vectors to final approach prior to KOACH.
GREBE
12300
129°
(24)
JEVOS
FL330
12300
130°
(31)
CIRKA
FL240
10000
*7900
130°
(33)
WANAB
17000
14000
9000
*7000
096°
(8)
WOBEN (5)
9000
*6700
098°
MOLLY
13000
11000
098°
(13)
WIKKR
210K 9000
153°
(15)
KOACH
210K 8000
10000
*9300
090°
(42)
JOMUB
FL240
10000
*8100
090°
(24)
TEEES
FL330
N
ARRIVAL ROUTE DESCRIPTION
GREBE TRANSITION (GREBE.MOLLY5)
TEEES TRANSITION (TEEES.MOLLY5)
LANDING RWY 22/26L/26R: From MOLLY on track 098° to cross WIKKR at 9000 and at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.
LANDING RWY 4/8R: From MOLLY on track 153° to cross KOACH at 8000 and at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

(WLEEE.POTRR1) 20198 AL-5891 (FAA)

POTRR ONE ARRIVAL (RNAV)

AUSTIN, TEXAS



ARRIVAL ROUTE DESCRIPTION

DBOYS TRANSITION (DBOYS.POTRR1)
LUKKN TRANSITION (LUKKN.POTRR1)
MNURE TRANSITION (MNURE.POTRR1)
WEEED TRANSITION (WEEED.POTRR1)

LANDING ALL AIRPORTS: From WLEEE on track 284° to POTRR, then on track 284°. Expect RADAR vectors to final approach course.

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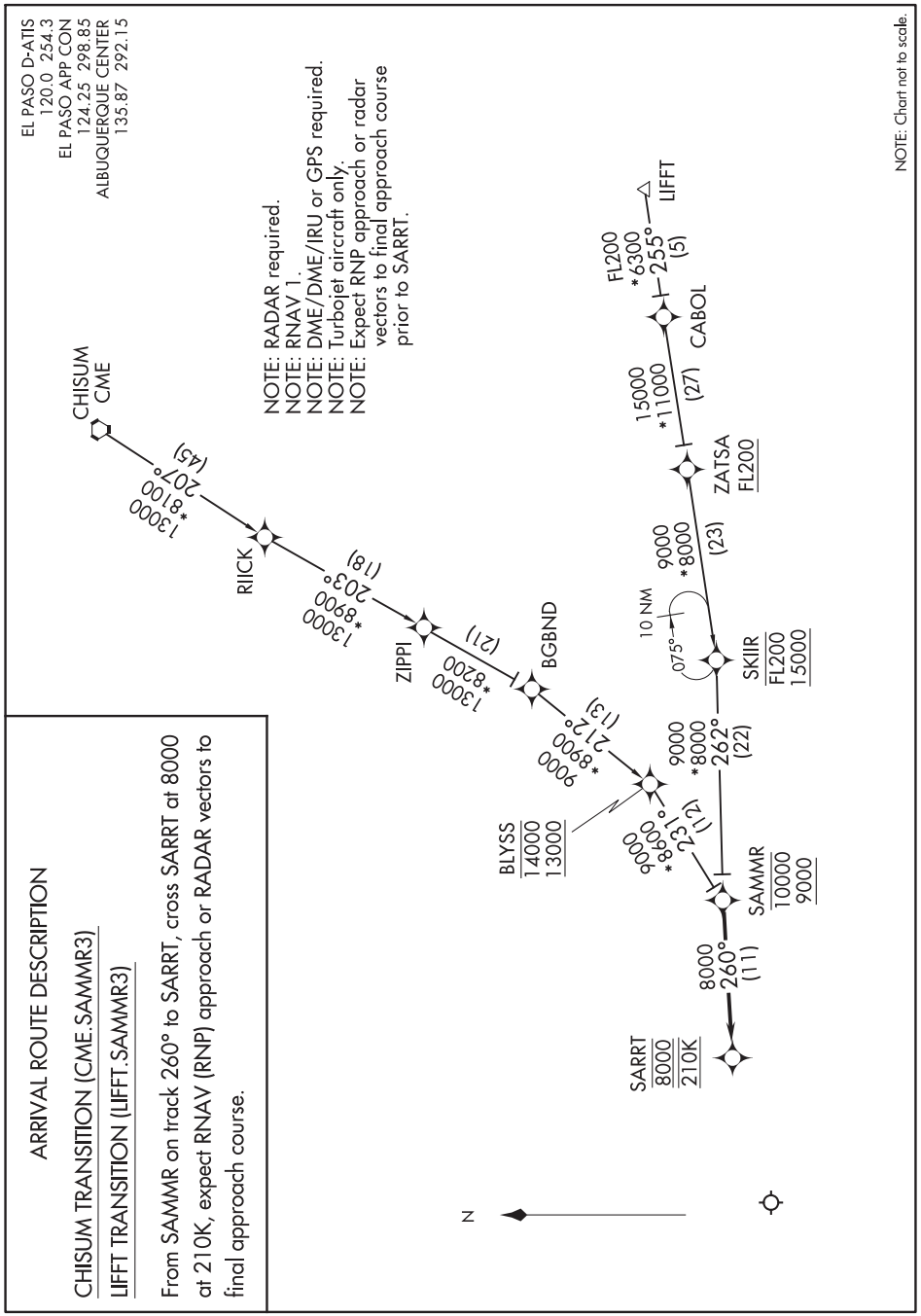
POTRR ONE ARRIVAL (RNAV)

AUSTIN, TEXAS

SAMMR THREE ARRIVAL (RNAV)

EL PASO INTL (ELP)
EL PASO, TEXAS



ARRIVAL ROUTE DESCRIPTION

CHISUM TRANSITION (CME.SAMMR3)

LIFFT TRANSITION (LIFFT.SAMMR3)

From SAMMR on track 260° to SARRT, cross SARRT at 8000 at 210K, expect RNAV (RNP) approach or RADAR vectors to final approach course.

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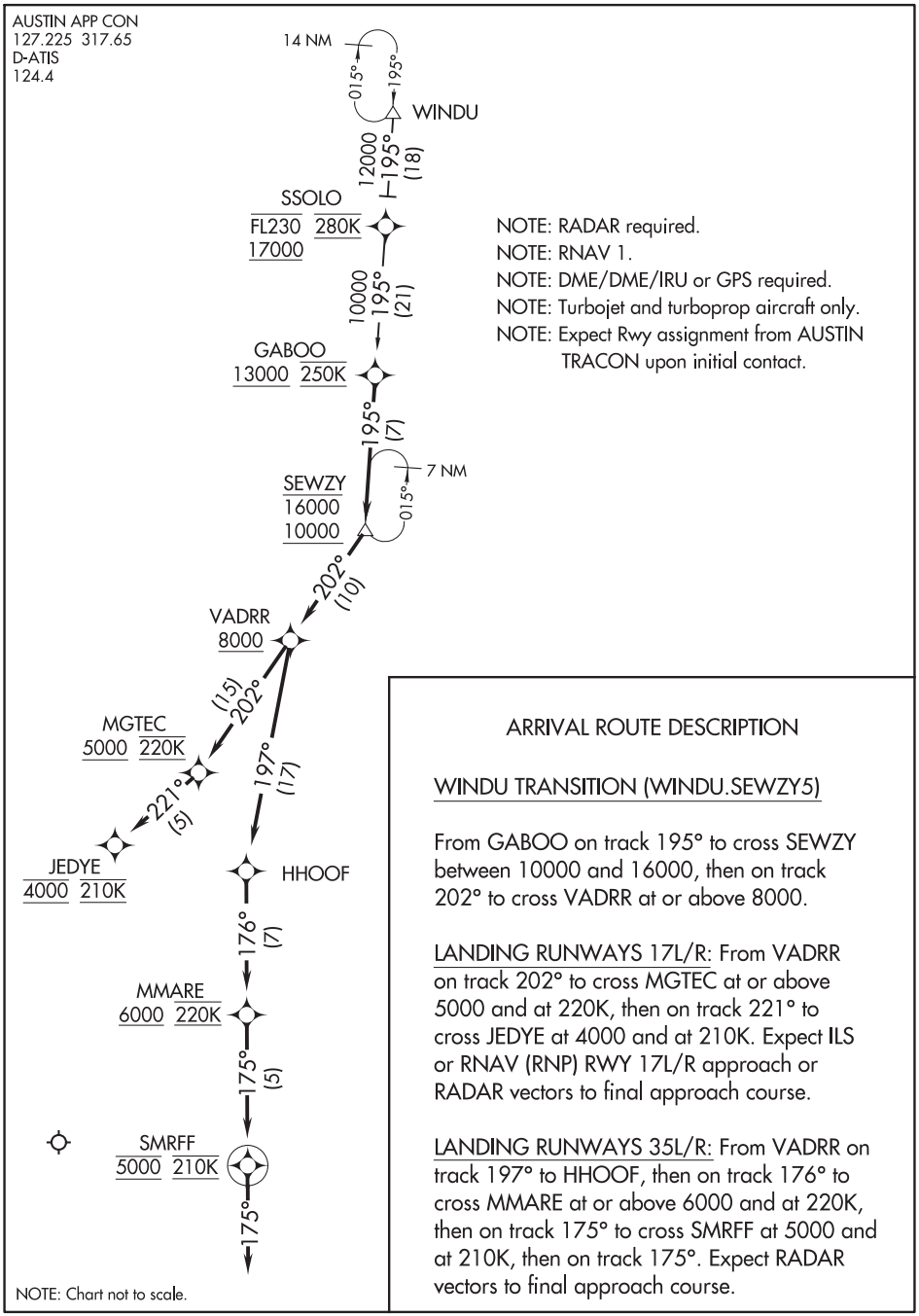
(GABOO.SEWZY5) 20198

AL-556 (FAA)

SEWZY FIVE ARRIVAL (RNAV)

AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS



NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: Expect Rwy assignment from AUSTIN TRACON upon initial contact.

ARRIVAL ROUTE DESCRIPTION

WINDU TRANSITION (WINDU.SEWZY5)

From GABOO on track 195° to cross SEWZY between 10000 and 16000, then on track 202° to cross VADRR at or above 8000.

LANDING RUNWAYS 17L/R: From VADRR on track 202° to cross MGTEC at or above 5000 and at 220K, then on track 221° to cross JEDYE at 4000 and at 210K. Expect ILS or RNAV (RNP) RWY 17L/R approach or RADAR vectors to final approach course.

LANDING RUNWAYS 35L/R: From VADRR on track 197° to HHOOF, then on track 176° to cross MMARE at or above 6000 and at 220K, then on track 175° to cross SMRFF at 5000 and at 210K, then on track 175°. Expect RADAR vectors to final approach course.

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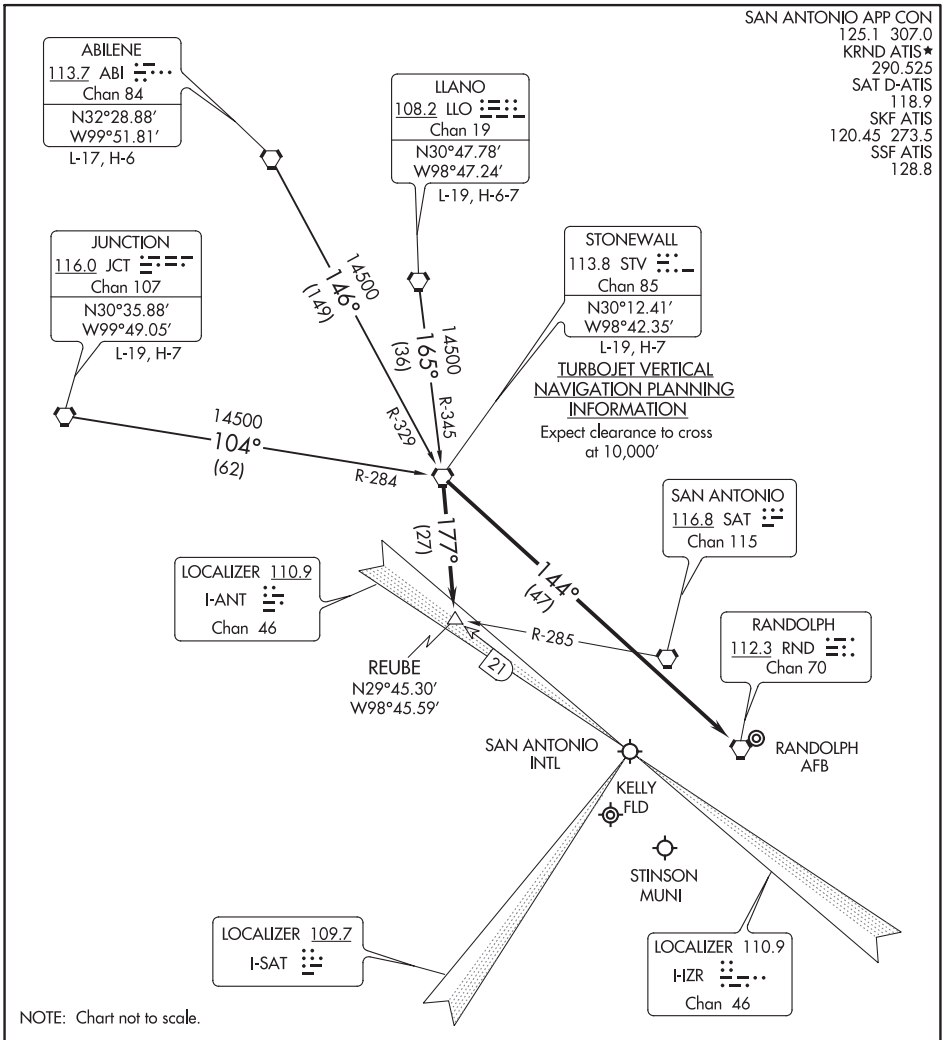
SEWZY FIVE ARRIVAL (RNAV)

(GABOO.SEWZY5) 16JUL20

AUSTIN, TEXAS
AUSTIN-BERGSTROM INTL (AUS)

STONEWALL ONE ARRIVAL

SAN ANTONIO, TEXAS



ARRIVAL ROUTE DESCRIPTION

ABILENE TRANSITION (ABI.STV1): From over ABI VORTAC via ABI R-146 and STV R-329 to STV VORTAC. Thence . . . .
JUNCTION TRANSITION (JCT.STV1): From over JCT VORTAC via JCT R-104 and STV R-284 to STV VORTAC. Thence . . . .
LLANO TRANSITION (LLO.STV1): From over LLO VORTAC via LLO R-165 and STV R-345 to STV VORTAC. Thence . . . .
ALL AIRPORTS EXCEPT RANDOLPH AIR FORCE BASE: . . . . From over STV VORTAC via STV R-177 to REUBE INT. Expect radar vectors to final approach course.
RANDOLPH AIR FORCE BASE: . . . . From over STV VORTAC via direct RND VORTAC.

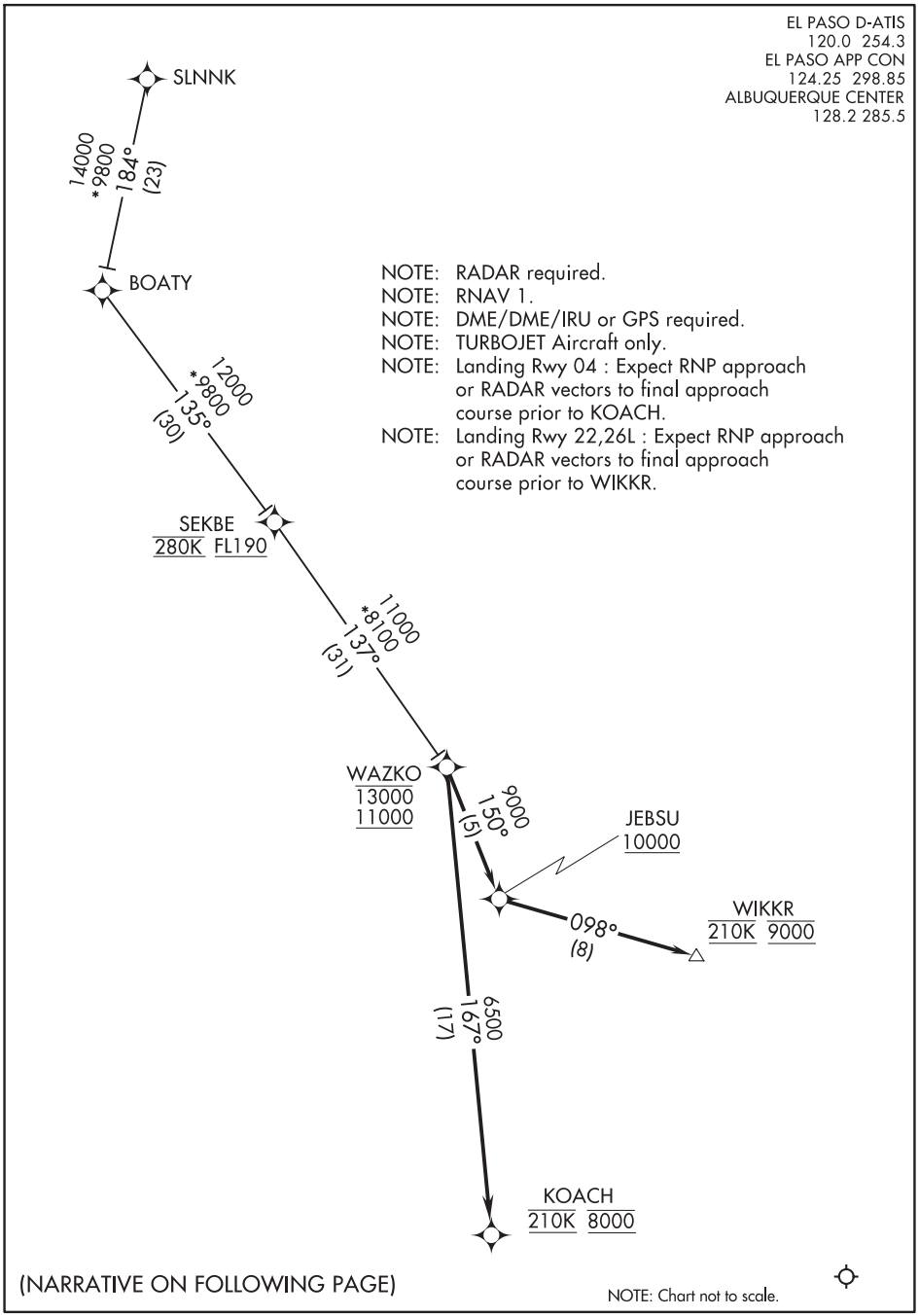
STONEWALL ONE ARRIVAL
SAN ANTONIO, TEXAS

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

(WAZKO.WAZKO1) 20030
WAZKO ONE ARRIVAL (RNAV)

AL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS



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SC-3, 25 FEB 2021 to 22 APR 2021

ARRIVAL ROUTE DESCRIPTION

SLNNK TRANSITION (SLNNK.WAZKO1):

LANDING RWY 4: From WAZKO on track 167° to KOACH at 8000 and at 210K. Expect RNAV (RNP) approach or RADAR vectors to final approach course.

LANDING RWY 8R: From WAZKO on track 167° to KOACH at 8000 and at 210K. Expect RADAR vectors to final approach course.

LANDING RWY 22/26L: From WAZKO on track 150° to cross JEBSU at or above 10000, then on track 098° to cross WIKKR at 9000 and at 210K. Expect RNAV (RNP) approach or RADAR vectors to final approach course.

LANDING RWY 26R: From WAZKO on track 150° to cross JEBSU at or above 10000, then on track 098° to cross WIKKR at 9000 and at 210K. Expect RADAR vectors to final approach course.

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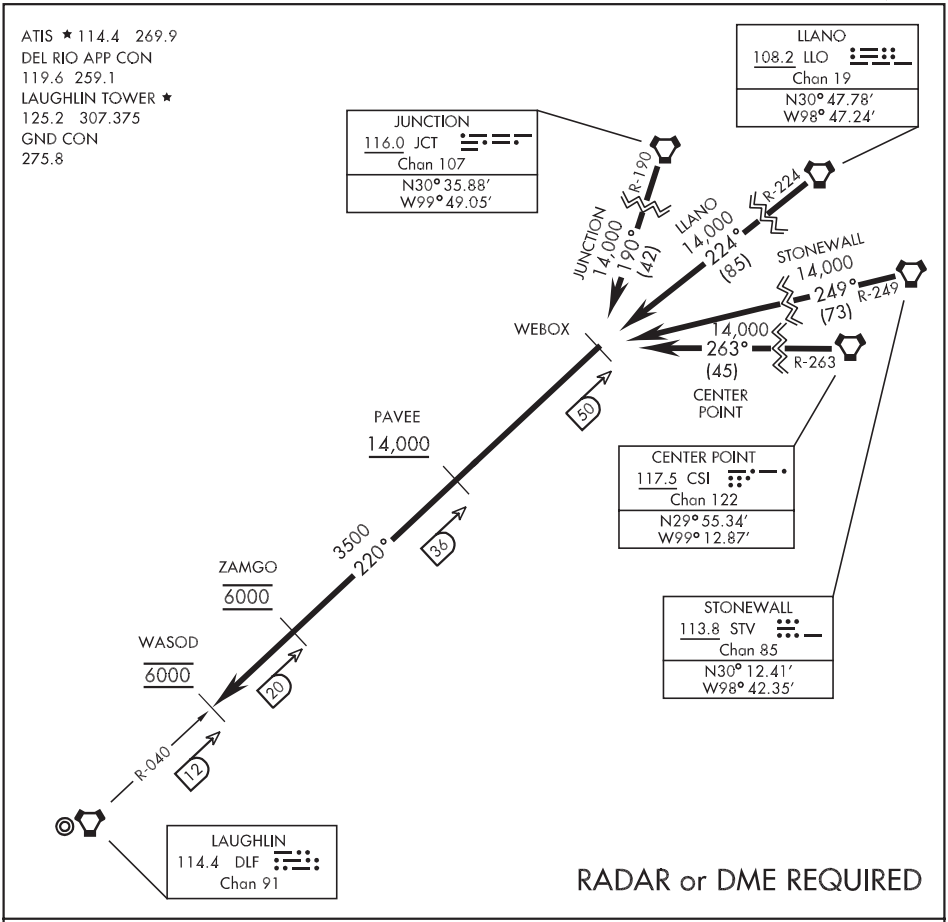
(WEBOX • WEBOX4)
WEBOX FOUR ARRIVAL

ST-111 [USAF]

LAUGHLIN AFB
DEL RIO, TEXAS



ARRIVAL ROUTE DESCRIPTION

JUNCTION Transition (JCT.WEBOX4): From over JCT VORTAC via JCT R-190 to WEBOX. Thence...

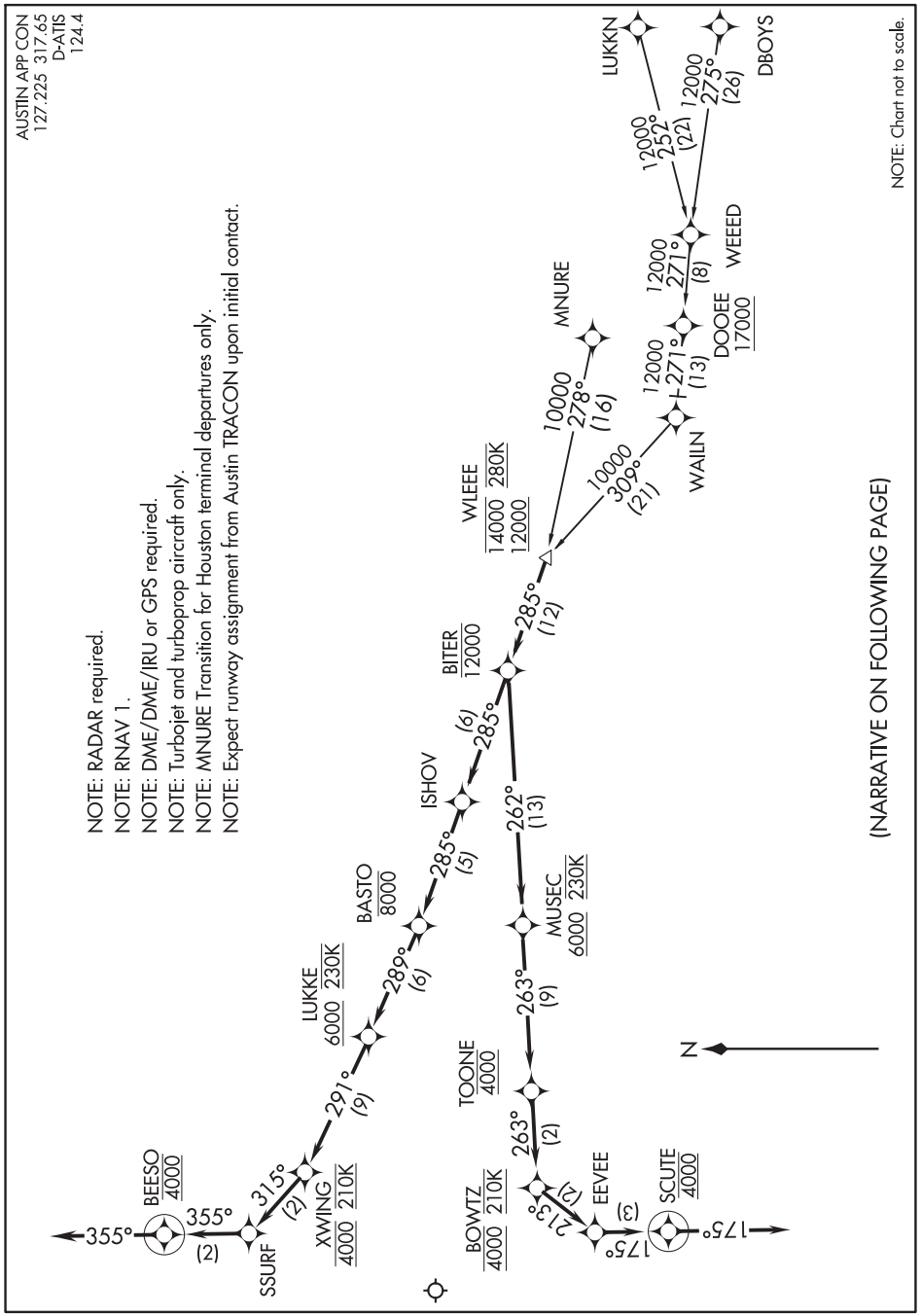
LLANO Transition (LLO.WEBOX4): From over LLO VORTAC via LLO R-224 to WEBOX. Thence...

STONEWALL Transition (STV.WEBOX4): From over STV VORTAC via STV R-249 to WEBOX. Thence...

CENTER POINT Transition (CSI.WEBOX4): From over CSI VORTAC via CSI R-263 to WEBOX. Thence...

...From over DLF R-040/50 (WEBOX) via DLF R-040 to DLF R-040/12 (WASOD). Expect vectors for an instrument approach to runway in use.

SC-3, 25 FEB 2021 to 22 APR 2021


AUSTIN APP CON
127.225 317.65
D-ATIS
124.4
NOTE: RADAR required.
NOTE: RNAV 1.
NOTE: DME/DME/IRU or GPS required.
NOTE: Turbojet and turboprop aircraft only.
NOTE: MNURE Transition for Houston terminal departures only.
NOTE: Expect runway assignment from Austin TRACON upon initial contact.
NOTE: Chart not to scale.
(NARRATIVE ON FOLLOWING PAGE)
N
355°
BEESO
4000
355°
(2)
SSURF
315°
(2)
XWING
4000 210K
291°
(9)
LUKKE
6000 230K
289°
(6)
BASTO
8000
285°
(5)
ISHOV
(6)
285°
BITER
12000
285°
(12)
WLEEE
14000 280K
12000
262°
(13)
MUSEC
6000 230K
263°
(9)
TOONE
4000
263°
(2)
BOWTZ
4000 210K
213°
(3)
EEVEE
175°
SCUTE
4000
175°
10000
309°
(21)
WAILN
10000
278°
(16)
MNURE
12000
271°
(13)
DOOEE
17000
12000
271°
(8)
WEEED
12000
252°
(22)
LUKKN
12000
275°
(26)
DBOYS

ARRIVAL ROUTE DESCRIPTION

DBOYS TRANSITION (DBOYS.WLEEE5)
LUKKN TRANSITION (LUKKN.WLEEE5)
MNURE TRANSITION (MNURE.WLEEE5)
WAILN TRANSITION (WAILN.WLEEE5)
WEEED TRANSITION (WEEED.WLEEE5)

From WLEEE on track 285° to cross BITER at or below 12000.

LANDING RWY 17L/R: From BITER on track 285° to ISHOV, then on track 285° to cross BASTO, at or below 8000, then on track 289° to cross LUKKE at or above 6000 and at 230K, then on track 291° to cross XWING at 4000 and at 210K, then on track 315° to SSURF, then on track 355° to BEESO, then on track 355°. Expect RNAV/RNP approach, or expect vectors to final approach course.

LANDING RWY 35L/R: From BITER on track 262° to cross MUSEC at or above 6000 and at 230K, then on track 263° to cross TOONE at 4000, then on track 263° to cross BOWTZ at 4000 and at 210K, then on track 213° to EEVEE, then on track 175° to SCUTE, then on track 175°. Expect RNAV/RNP approach, or expect vectors to final approach course.

RNAV (GPS) RWY 13
ALICE INTL (ALI)

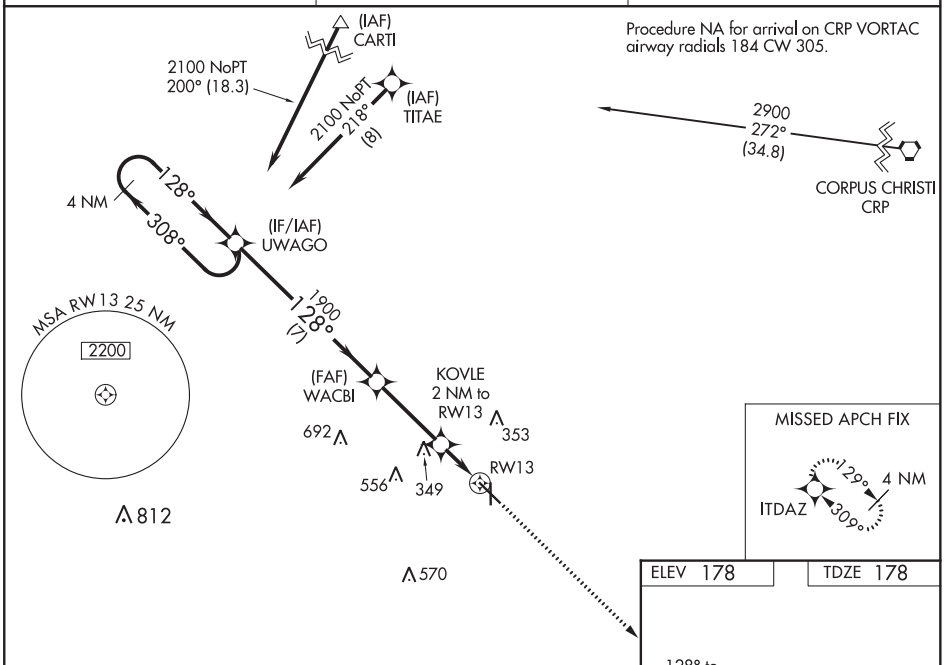
WAAS CH 42629 W13A	APP CRS 128°	Rwy ldg 5997 TDZE 178 Apt Elev 178

RNP APCH.

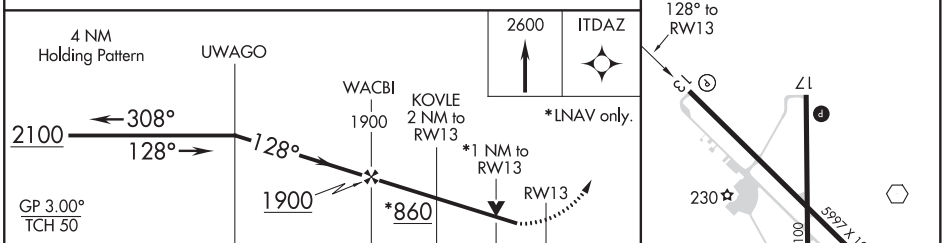
Baro-VNAV NA when using Nueces County altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -3°C or above 42°C. When local altimeter setting not received, use Nueces County altimeter setting and increase all DA 56 feet and all MDA 60 feet, increase LPV and LNAV/VNAV visibility all Cats ¼ mile and LNAV Cat C and D ¼ mile. Rwy 13 helicopter visibility reduction below ¾ SM NA. VDP NA with Nueces County altimeter setting.

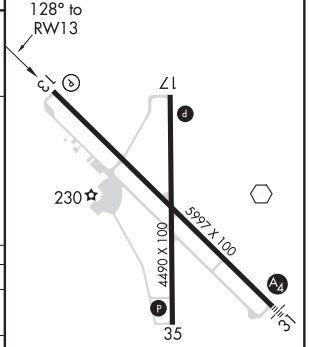
MISSED APPROACH: Climb to 2600 direct ITDAZ and hold.

ASOS	KINGSVILLE APP CON ★	UNICOM
119.225	119.9 290.45	123.0 (CTAF) L



ELEV 178	TDZE 178





REIL Rwy 13 L
MIRL Rwys 13-31 and 17-35 L

CATEGORY	A	B	C	D
LPV DA	428-¾ 250 (300-¾)			
LNAV/VNAV DA	428-¾ 250 (300-¾)			
LNAV MDA	560-1 382 (400-1)		560-1⅛ 382 (400-1⅛)	

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ALICE, TEXAS

AL-481 (FAA)

20198

RNAV (GPS) RWY 31
ALICE INTL (ALI)

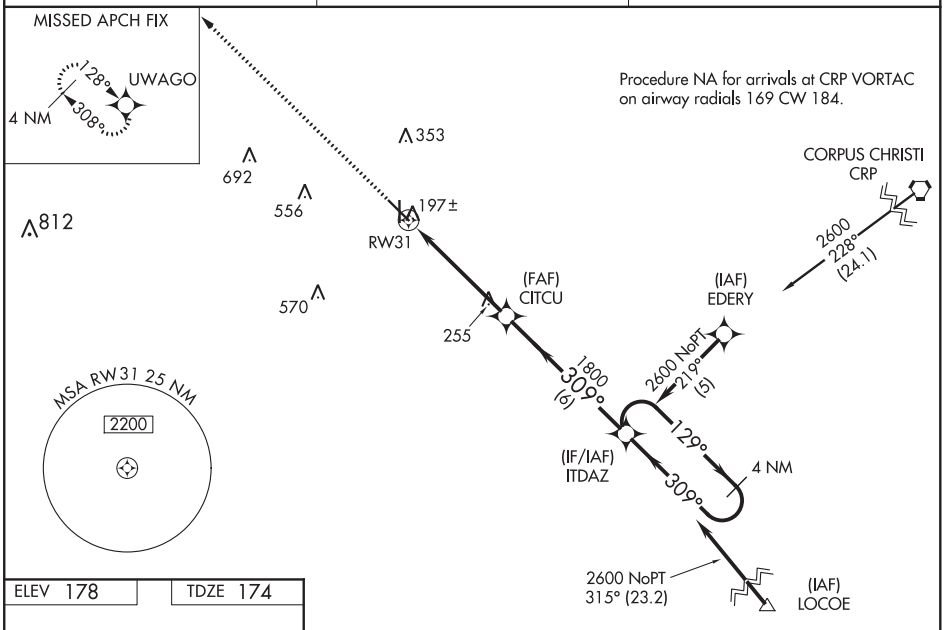
WAAS CH 81813 W31A	APP CRS 309°	Rwy ldg 5997 TDZE 174 Apt Elev 178

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Nueces County altimeter setting: increase DA by 56 feet and visibility LNAV/VNAV all Cats to ⅞ mile; increase all MDA 60 feet and LNAV visibility Cat C, D to 1 mile. For inop MALS, increase LPV all Cats visibility to ⅞ mile. For inop MALS with Nueces County altimeter setting, increase LNAV/VNAV all Cats and LNAV Cats C, D visibility to 1⅛ mile. VDP NA when using Nueces County altimeter setting.

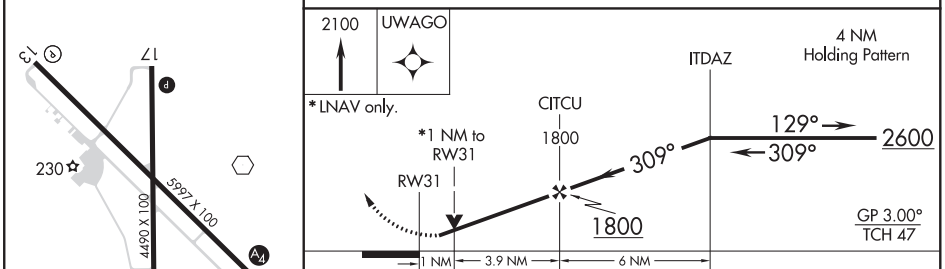
MALS

MISSED APPROACH: Climb to 2100 direct UWAGO and hold.

ASOS	KINGSVILLE APP CON ★	UNICOM
119.225	119.9 290.45	123.0 (CTAF) L



ELEV 178	TDZE 174



CATEGORY	A	B	C	D
LPV DA	437-¾ 263 (300-¾)			
LNAV/VNAV DA	467-¾ 293 (300-¾)			
LNAV MDA	520-¾ 346 (400-¾)			
CIRCLING	600-1 422 (500-1)	640-1 462 (500-1)	660-1½ 482 (500-1½)	740-2 562 (600-2)

REIL Rwy 13 L
MIRL Rwys 13-31 and 17-35 L

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LOC/DME RWY 31
ALICE INTL (ALI)

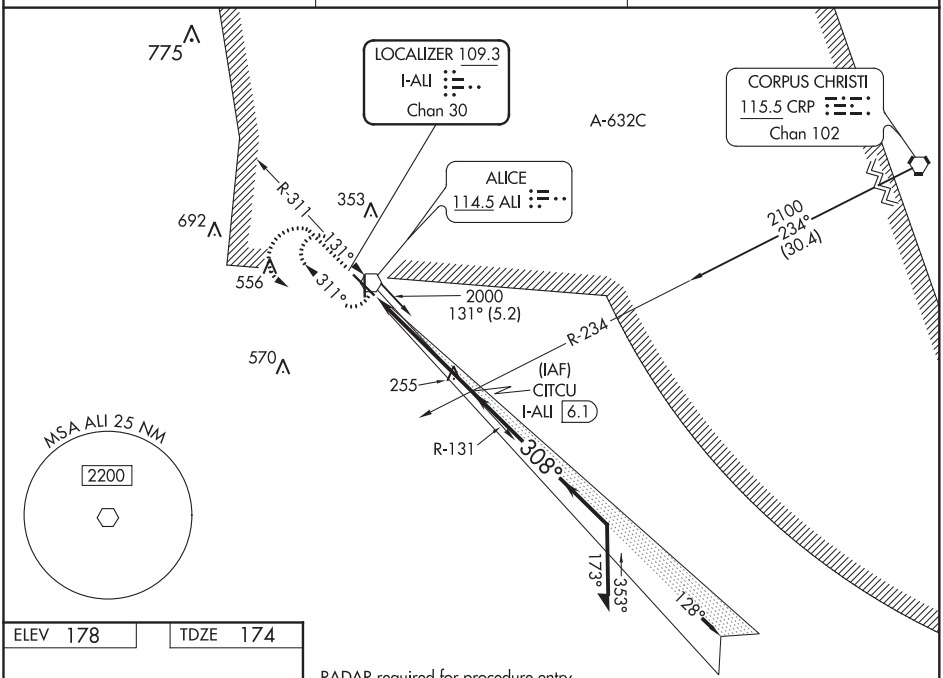
LOC/DME I-ALI	APP CRS	Rwy ldg	5997
109.3	308°	TDZE	174
Chan 30		Apt Elev	178

When local altimeter setting not received, use Nueces County altimeter setting: increase all MDAs 60 feet and visibility Cats C and D ¼ mile. VDP NA when using Nueces County altimeter setting. For inop MALS increase S-31 Cats C, D visibility to 1 mile. For inop MALS with Nueces County altimeter setting increase S-31 Cats C, D visibility to ⅛ mile.

MALS

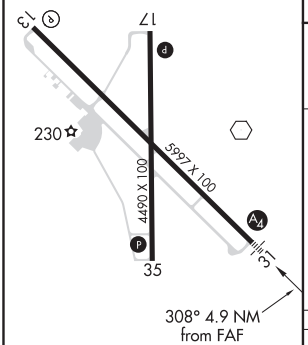
MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

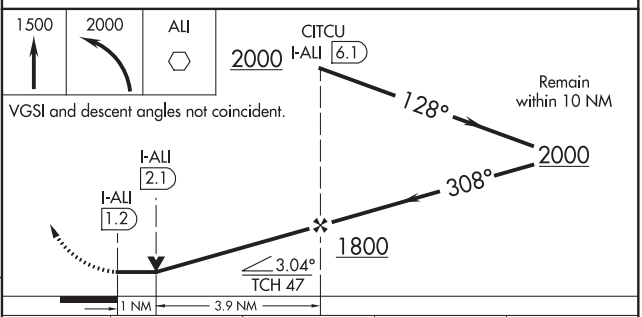
ASOS	KINGSVILLE APP CON ★	UNICOM
119.225	119.9 290.45	123.0 (CTAF) L



RADAR required for procedure entry from Corpus Christi CRP VORTAC.

ELEV 178	TDZE 174





CATEGORY	A	B	C	D
S-31	520-¾ 346 (400-¾)			
CIRCLING	600-1 422 (500-1)	640-1 462 (500-1)	660-1½ 482 (500-1½)	740-2 562 (600-2)

REIL Rwy 13 L
MIRL Rwys 13-31 and 17-35 L

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SC-3, 25 FEB 2021 to 22 APR 2021

VOR RWY 31
ALICE INTL (ALI)

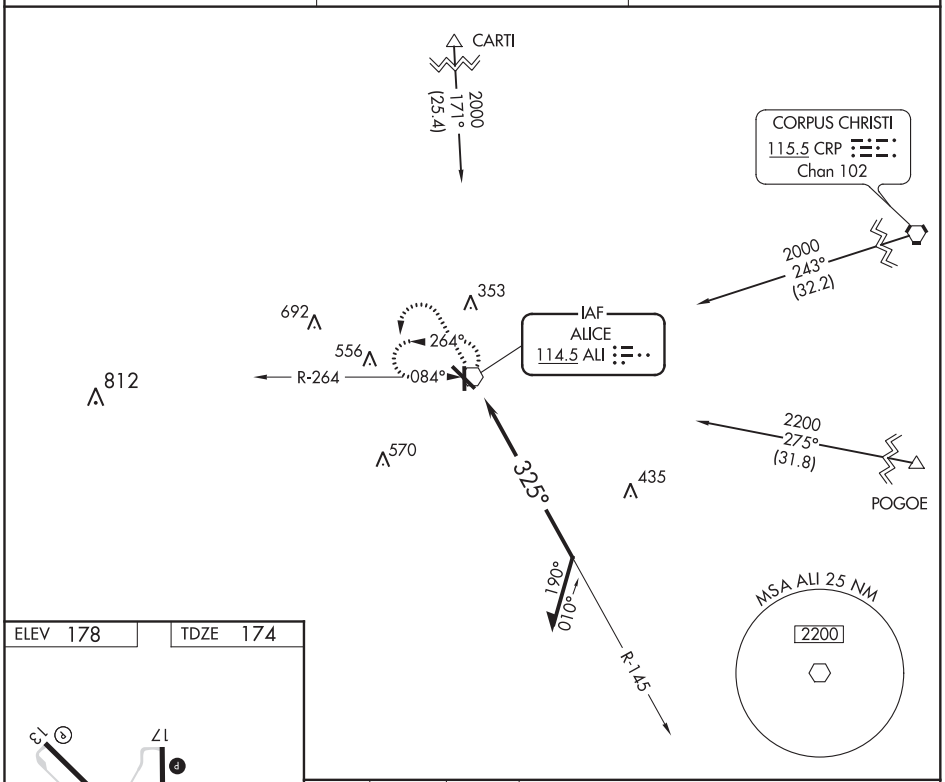
VOR ALI	APP CRS	Rwy ldg	5997
114.5	325°	TDZE	174
		Apt Elev	178

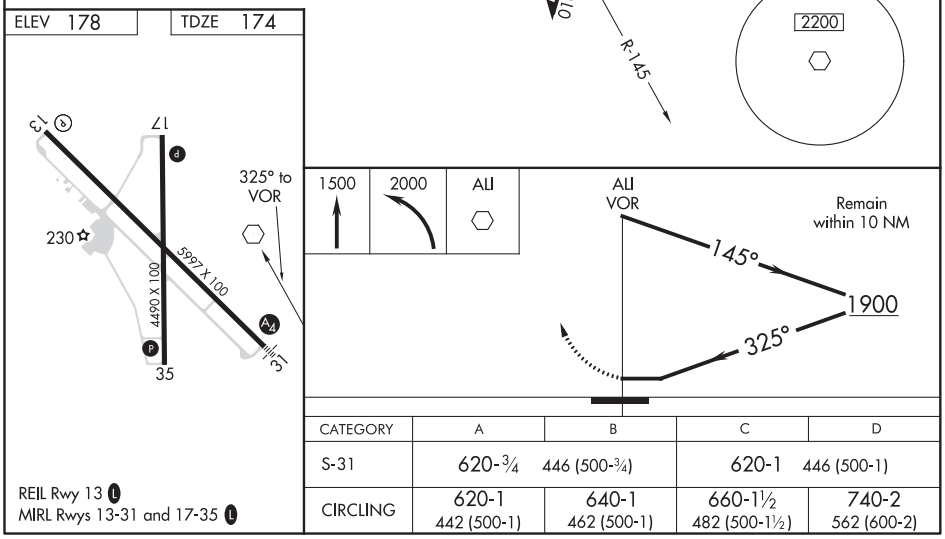
When local altimeter setting not received, use Nueces County altimeter setting: increase all MDAs 60 feet and visibility S-31 Cats C and D ¼ mile. Visibility reduction by helicopters NA. For inop ALS when using Nueces County altimeter setting, increase S-31 Cats C, D visibility to 1⅜ SM. For inop ALS, increase S-31 Cats C, D visibility to 1⅜ SM.

MALS A4

MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

ASOS	KINGSVILLE APP CON ★	UNICOM
119.225	119.9 290.45	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-31	620-¾ 446 (500-¾)		620-1 446 (500-1)	
CIRCLING	620-1 442 (500-1)	640-1 462 (500-1)	660-1½ 482 (500-1½)	740-2 562 (600-2)

SC-3, 25 FEB 2021 to 22 APR 2021

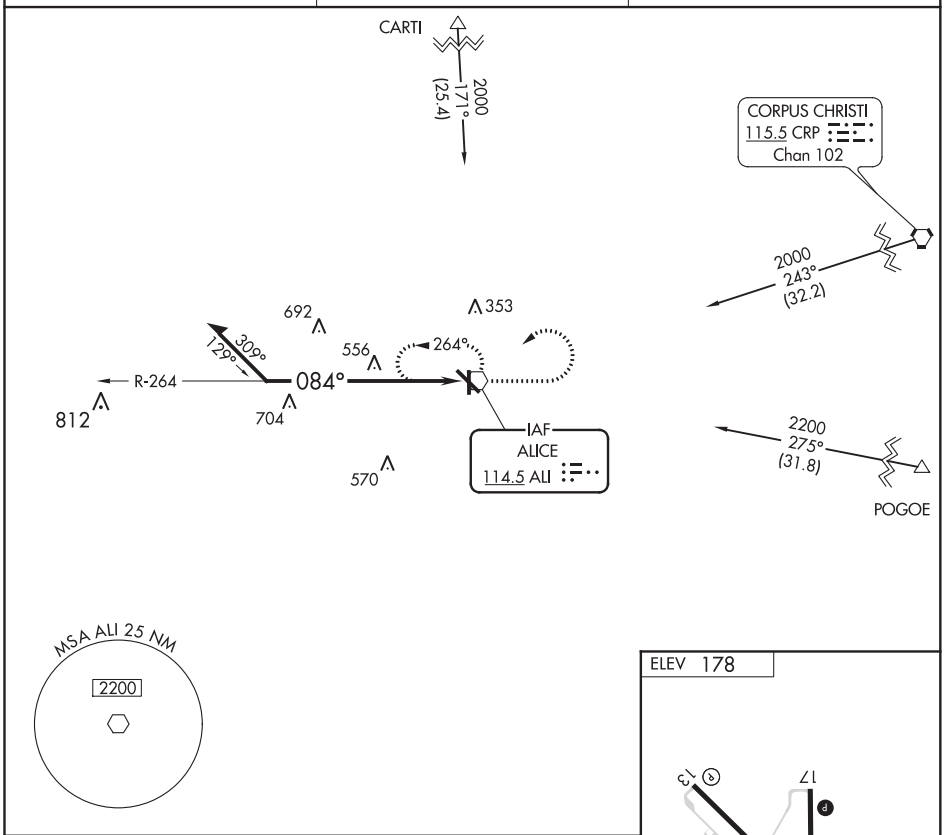
VOR-A
ALICE INTL (ALI)

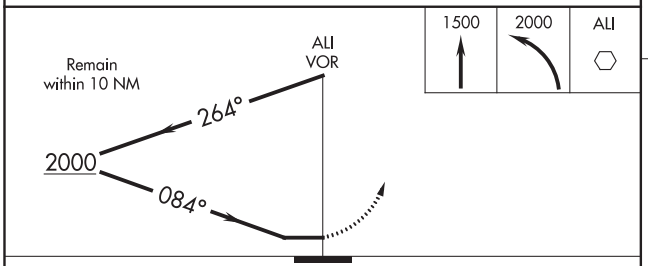
VOR ALI	APP CRS	Rwy ldg	N/A
114.5	084°	TDZE	N/A
		Apt Elev	178

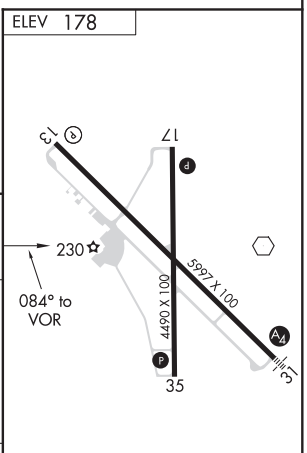
When local altimeter setting not received, use Nueces County altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct ALI VOR and hold.

ASOS	KINGSVILLE APP CON ★	UNICOM
119.225	119.9 290.45	123.0 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	1060-1¼ 882 (900-1¼)		1060-2¾ 882 (900-2¾)	1060-3 882 (900-3)

REIL Rwy 13 L
MIRL Rwys 13-31 and 17-35 L

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ALPINE, TEXAS

AL-6295 (FAA)

19031

WAAS CH 77923 W19A	APP CRS 194°	Rwy ldg 6002 TDZE 4482 Apt Elev 4514

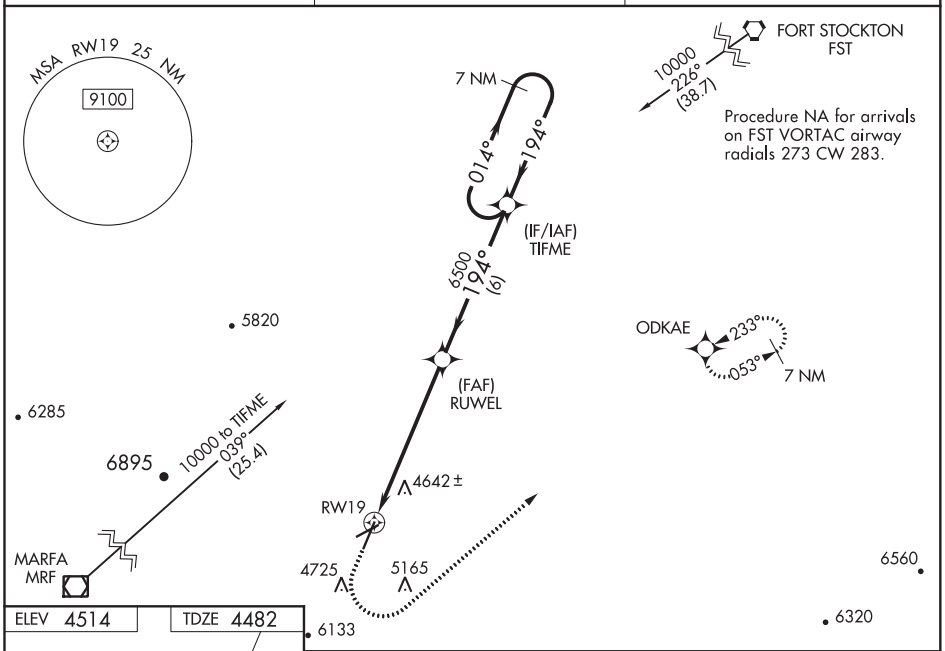
RNAV (GPS) RWY 19
ALPINE-CASPARIS MUNI (E38)

RNP APCH.

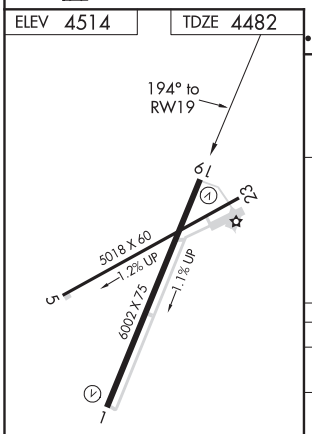
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C or above 54°C. Circling NA W of Rwy 1-19. Rwy 19 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: (Do not exceed 165K until ODKAE) Climb to 5200 then climbing left turn to 9000 direct ODKAE and hold, continue climb-in-hold to 9000.

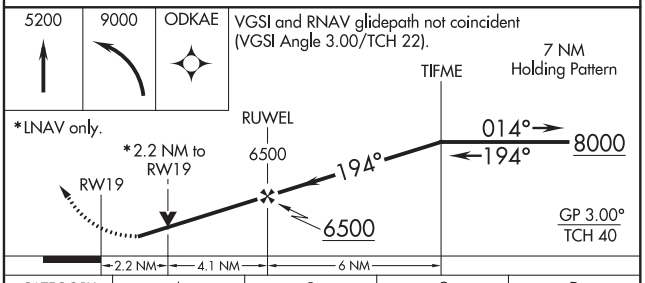
AWOS-3	ALBUQUERQUE CENTER	UNICOM
119.025	135.875 292.15	122.8 (CTAF) L



ELEV 4514 | TDZE 4482



MIRL Rwys 1-19 and 5-23 L



CATEGORY	A	B	C	D
LPV DA	4964-1⅜ 482 (500-1⅜)			NA
LNAV/VNAV DA	5125-1⅞ 643 (700-1⅞)			NA
LNAV MDA	5180-1 698 (700-1)		5180-2 698 (700-2)	NA
C CIRCLING	5180-1 666 (700-1)	5460-1¼ 946 (1000-1¼)	5760-3 1246 (1300-3)	NA

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RNAV (GPS) RWY 23

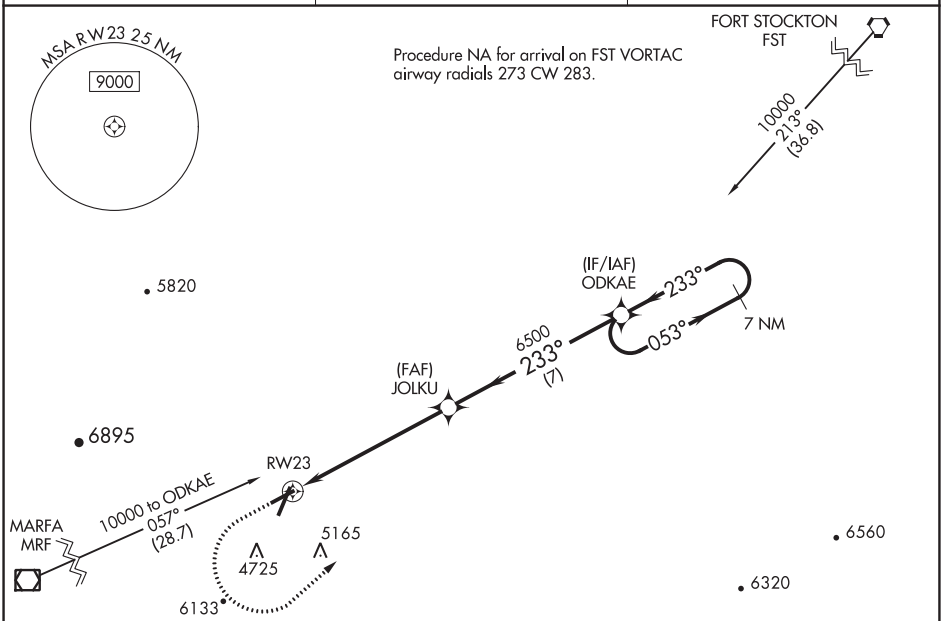
ALPINE-CASPARIS MUNI (E38)

WAAS CH 50234 W23A	APP CRS 233°	Rwy ldg 5018 TDZE 4482 Apt Elev 4514

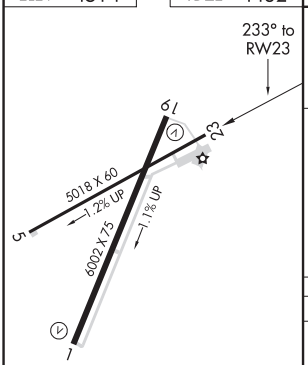
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 54°C (130°F). Circling NA west of Rwy 1-19. Rwy 23 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

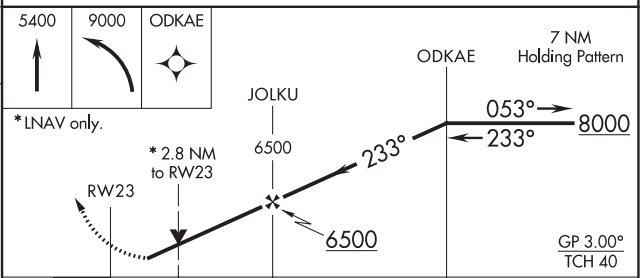
MISSED APPROACH: (Do not exceed 165K until ODKAE) Climb to 5400 then climbing left turn to 9000 direct ODKAE and hold, continue climb-in-hold to 9000.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
119.025	135.875 292.15	122.8 (CTAF) L



ELEV 4514	TDZE 4482





CATEGORY	A	B	C	D
LPV DA	4999-1⅜ 517 (500-1⅜)			NA
LNAV/VNAV DA	5087-1¾ 605 (600-1¾)			NA
LNAV MDA	5400-1¼ 918 (900-1¼)		5400-2½ 918 (900-2½)	NA
C CIRCLING	5400-1¼ 886 (900-1¼)	5460-1¼ 946 (1000-1¼)	5760-3 1246 (1300-3)	NA

MIRL Rwys 1-19 and 5-23 L

SC-3, 25 FEB 2021 to 22 APR 2021

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AUSTIN, TEXAS

AL-5891 (FAA)

20030

RNAV (GPS) RWY 13
AUSTIN EXECUTIVE (EDC)

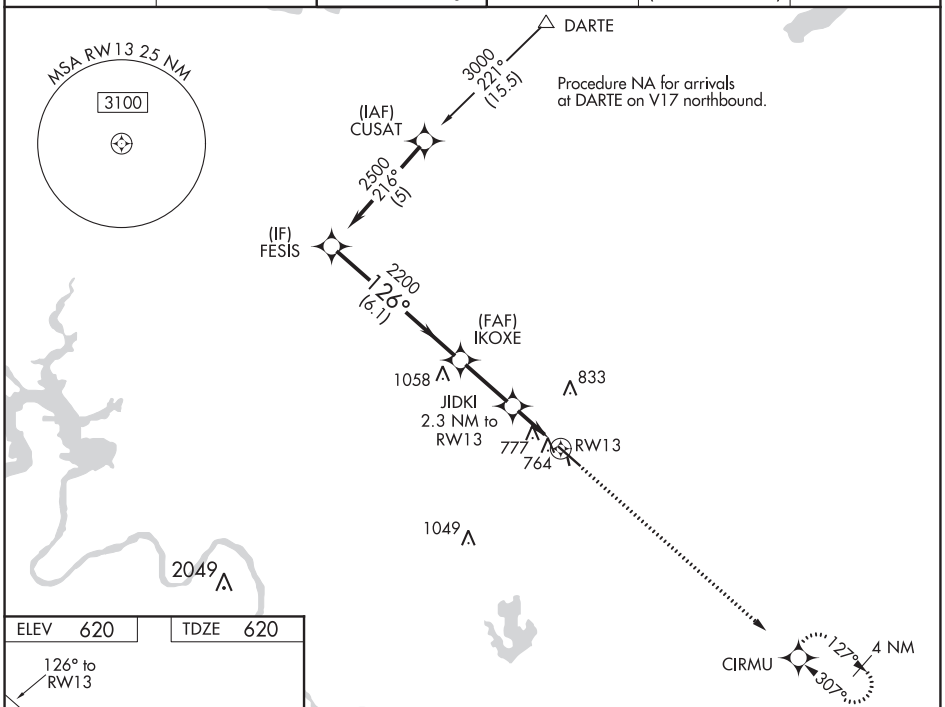
WAAS CH 63116 W13A	APP CRS 126°	Rwy ldg 5425 TDZE 620 Apt Elev 620

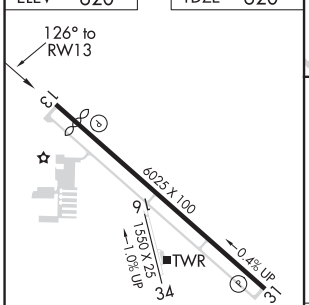
RNP APCH.

Baro-VNAV NA when using Austin-Bergstrom Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Visibility reduction by helicopters NA. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting: increase LPV DA to 912 feet, increase LNAV/VNAV DA to 1168 feet; increase all MDA 60 feet. VDP NA with Austin-Bergstrom Intl altimeter setting. Circling NA to Rwy 16 and 34.

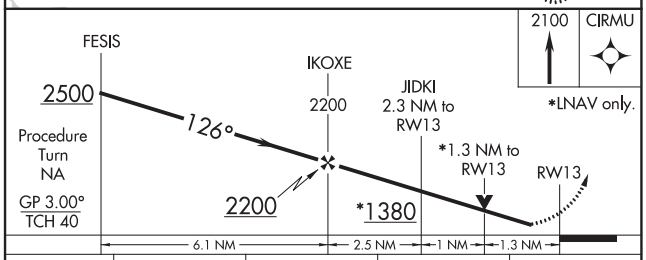
MISSED APPROACH: Climb to 2100 direct CIRMU and hold.

AWOS-3	APP CON	EXECUTIVE TOWER★	GND CON	CLNC DEL	UNICOM
118.825	127.225 317.65	120.3 (CTAF) L	119.45	126.025 (when tower closed)	122.975





MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L



CATEGORY	A	B	C	D
LPV DA	870-1 250 (300-1)			
LNAV/VNAV DA	1126-1¾ 506 (600-1¾)			
LNAV MDA	1080-1 460 (500-1)		1080-1⅜ 460 (500-1⅜)	1080-1½ 460 (500-1½)
C CIRCLING	1140-1 520 (600-1)	1160-1 540 (600-1)	1160-1½ 540 (600-1½)	1220-2 600 (600-2)

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WAAS CH **45916** **W31A**	APP CRS **306°**	Rwy ldg **6025** TDZE **612** Apt Elev **620**

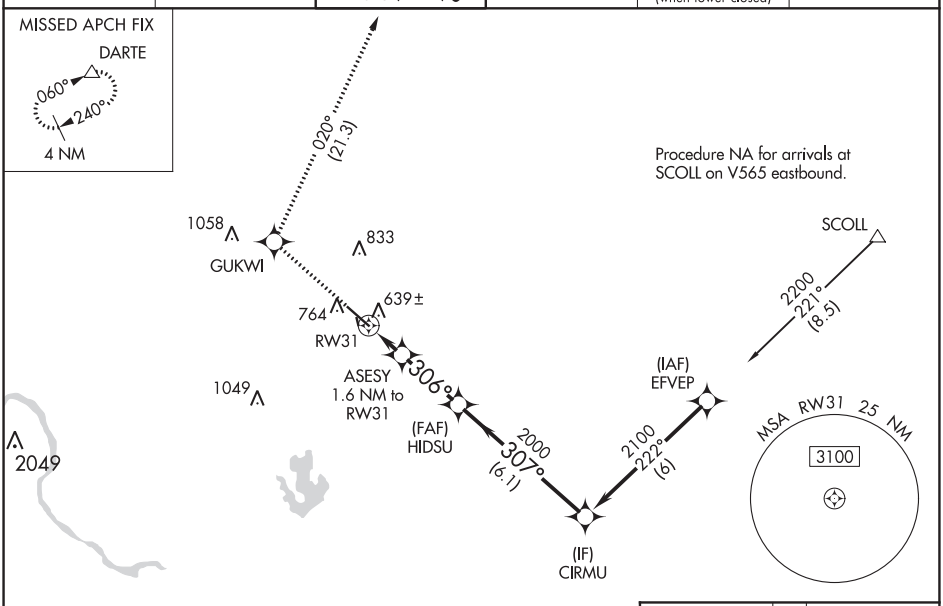
RNAV (GPS) RWY 31
AUSTIN EXECUTIVE (EDC)

RNP APCH.

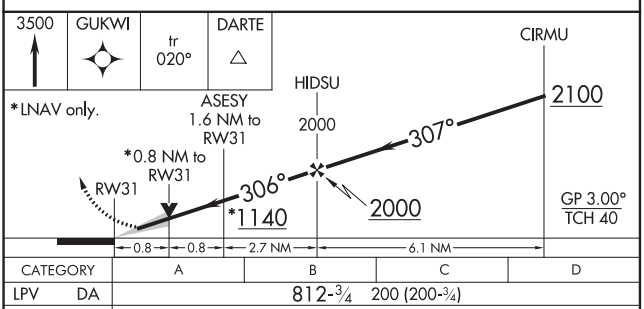
T A Baro-VNAV NA when using Austin-Bergstrom Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. When local altimeter setting not received, use Austin-Bergstrom Intl altimeter setting and increase all DA 42 feet; increase all MDA 60 feet. Increase LNAV/VNAV all Cats visibility ⅛ SM. VDP NA with Austin-Bergstrom Intl altimeter setting. Circling NA to Rwy 16, 34.

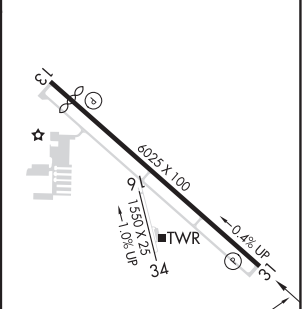
MISSED APPROACH: Climb to 3500 direct GUKWI and on track 020° to DARTE and hold.

AWOS-3	APP CON	EXECUTIVE TOWER★	GND CON	CLNC DEL	UNICOM
118.825	**127.225 317.65**	**120.3** (CTAF) L	**119.45**	**126.025** (when tower closed)	**122.975**



ELEV 620	TDZE 612





CATEGORY	A	B	C	D
LPV DA	812-¾ 200 (200-¾)			
LNAV/VNAV DA	909-⅞ 297 (300-⅞)			
LNAV MDA	900-1 288 (300-1)			
C CIRCLING	1140-1 520 (600-1)	1160-1 540 (600-1)	1160-1½ 540 (600-1½)	1220-2 600 (600-2)

MIRL Rwy 13-31 L
REIL Rwys 13 and 31 L

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SC-3, 25 FEB 2021 to 22 APR 2021

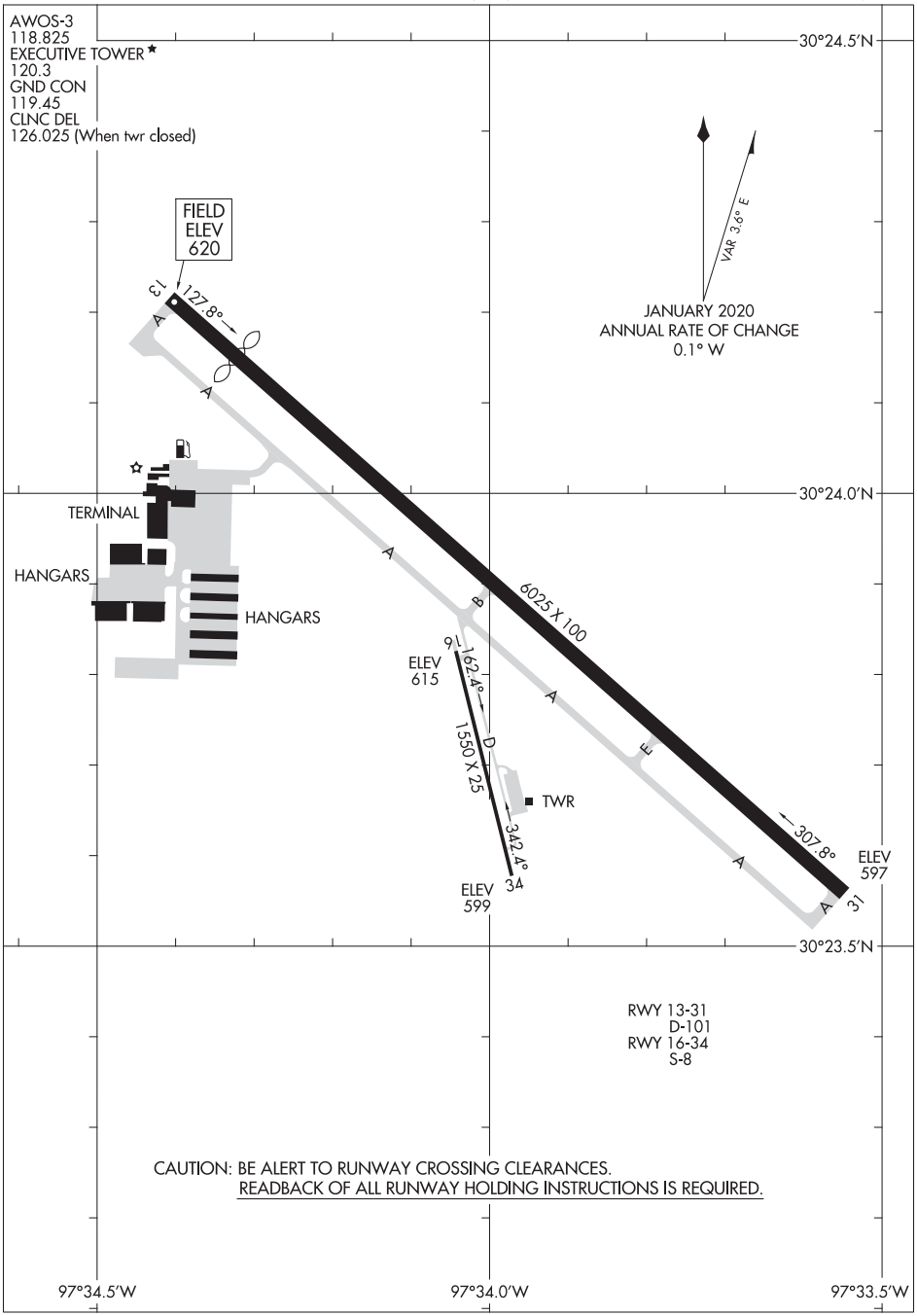
20086

AIRPORT DIAGRAM

AL-5891 (FAA)

AUSTIN EXECUTIVE (EDC)

AUSTIN, TEXAS

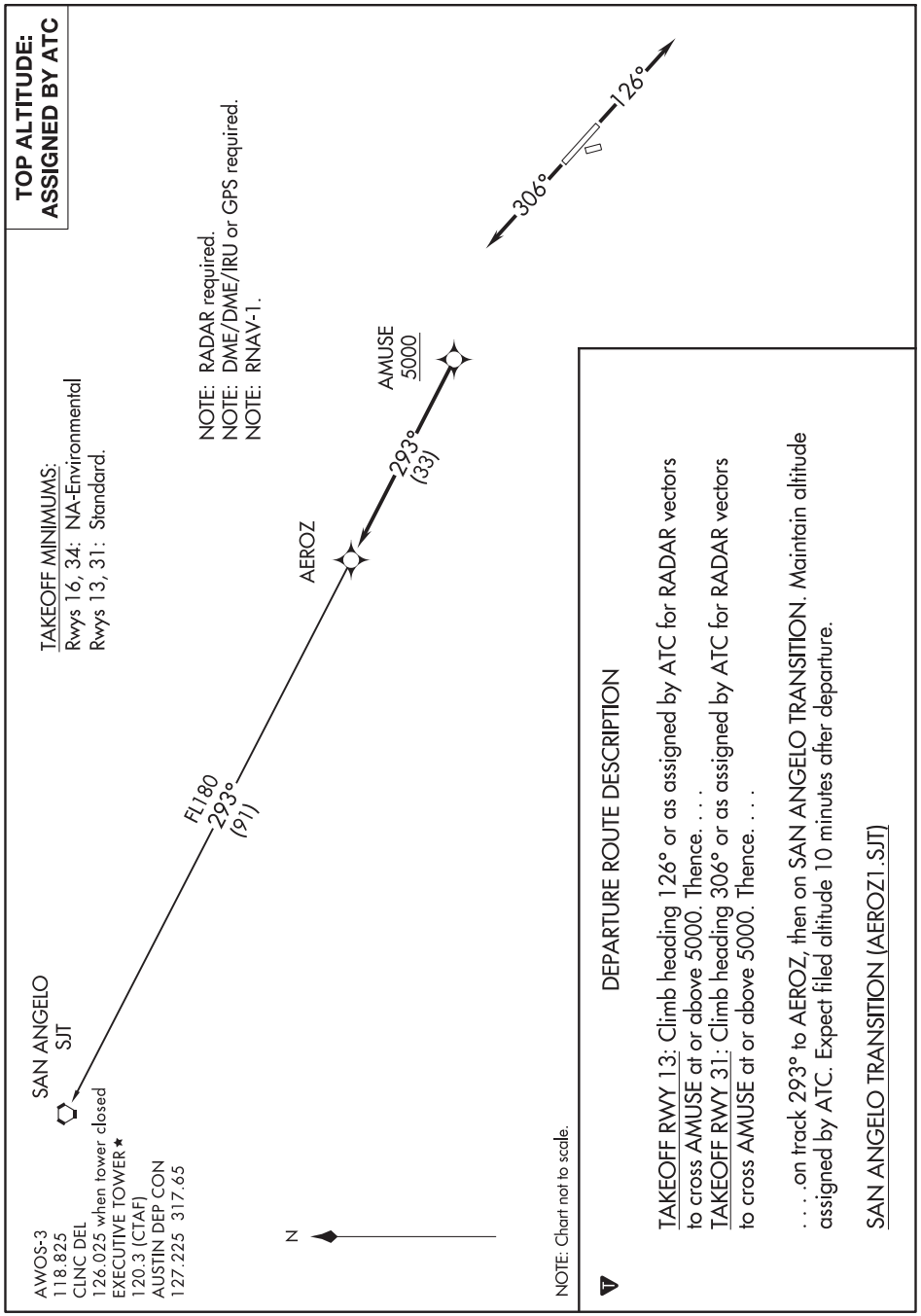


SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
AUSTIN, TEXAS
AUSTIN EXECUTIVE (EDC)

AEROZ ONE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence. . . .

. . . .on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SAN ANGELO TRANSITION (AEROZ1.SJT)

AEROZ ONE DEPARTURE (RNAV)

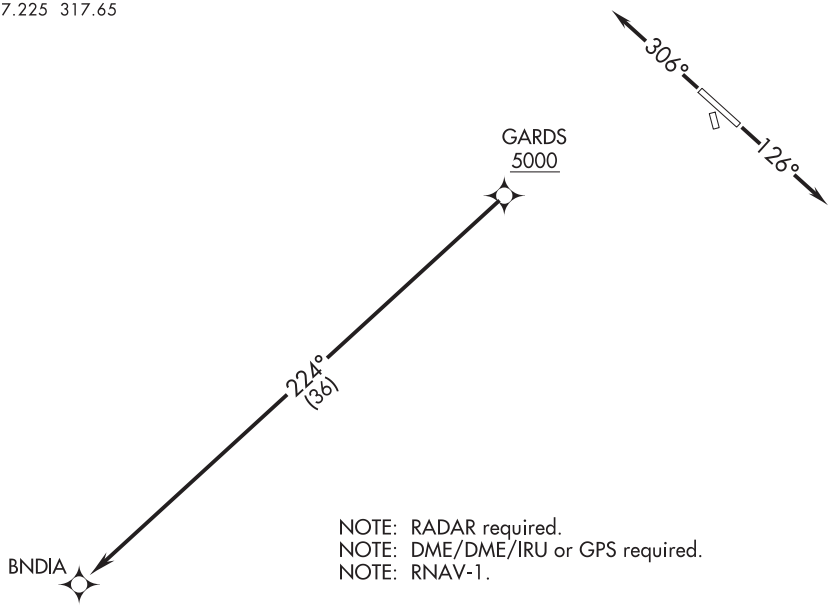
(BNDIA2.BNDIA) 18200 AL-5891 (FAA)

AUSTIN EXECUTIVE(EDC)
AUSTIN, TEXAS

BNDIA TWO DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.825
CLNC DEL
126.025 when tower closed
EXECUTIVE TOWER ★
120.3 (CTAF)
AUSTIN DEP CON
127.225 317.65



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 16, 34: NA-Environmental.
Rwys 13, 31: Standard.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence. . . .

. . . .on track 224° to BNDIA. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 25 FEB 2021 to 22 APR 2021

ELOEL TWO DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.825
CLNC DEL
126.025 when tower closed
EXECUTIVE TOWER★
120.3 (CTAF)
AUSTIN DEP CON
127.225 317.65

ABILENE
ABI

FL180
307°
(120)

FORSS

KLNGR

10500
*2700
338°
(20)

10500
*2700
329°
(18)

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 16, 34: NA-Environmental.
Rwys 13, 31: Standard.

ELOEL

338°
(10)

WLMRT
5000

NOTE: Chart not to scale.

306°
126°

DEPARTURE ROUTE DESCRIPTION

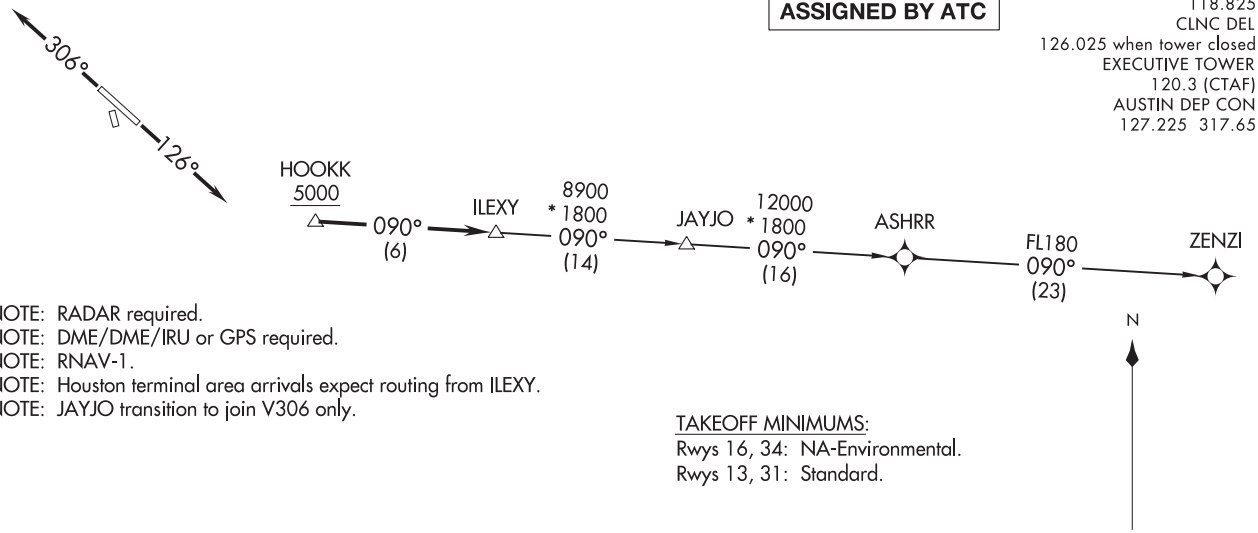
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence. . . .

. . . .on track 338° to ELOEL, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (ELOEL2.ABI)
FORSS TRANSITION (ELOEL2.FORSS)
KLNGR TRANSITION (ELOEL2.KLNGR)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.825
CLNC DEL
126.025 when tower closed
EXECUTIVE TOWER ★
120.3 (CTAF)
AUSTIN DEP CON
127.225 317.65



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.

TAKEOFF MINIMUMS:
Rwys 16, 34: NA-Environmental.
Rwys 13, 31: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence. . . .

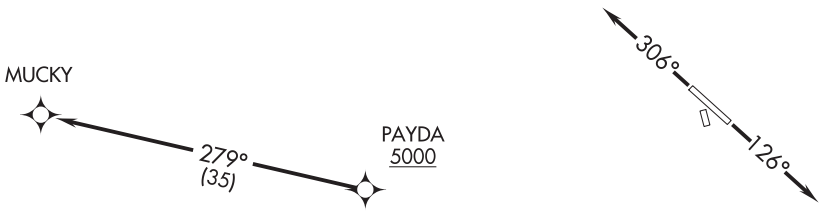
. . . .on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY2.JAYJO)
ZENZI TRANSITION (ILEXY2.ZENZI)

MUCKY TWO DEPARTURE(RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

AWOS-3
118.825
CLNC DEL
126.025 when tower closed
EXECUTIVE TOWER ★
120.3 (CTAF)
AUSTIN DEP CON
127.225 317.65



TAKEOFF MINIMUMS:
Rwys 16, 34: NA-Environmental.
Rwys 13, 31: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .

. . . .on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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(SAYBR2.SAYBR) 18200 AL-5891 (FAA)

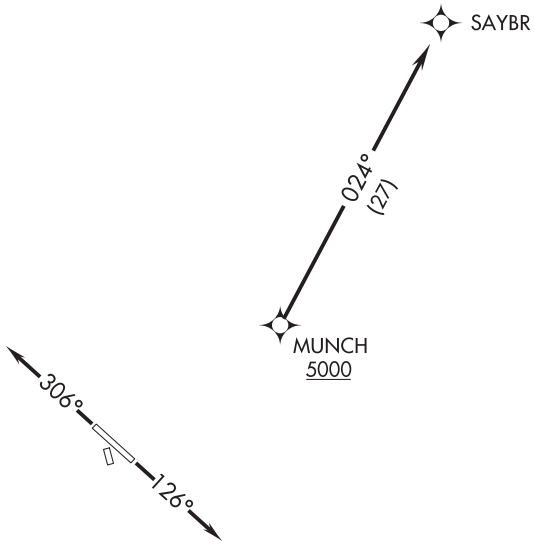
SAYBR TWO DEPARTURE (RNAV)

AUSTIN EXECUTIVE(EDC)
AUSTIN, TEXAS

AWOS-3
118.825
CLNC DEL
126.025 when tower closed
EXECUTIVE TOWER ★
120.3 (CTAF)
AUSTIN DEP CON
127.225 317.65

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 16, 34: NA-Environmental.
Rwys 13, 31: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1
NOTE: For DFW Terminal Area Arrivals at FL230 or below only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .

. . . .on track 024° to SAYBR. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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ILS or LOC RWY 17L
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-VNK	APP CRS	Rwy ldg	9000
110.5	175°	TDZE	492
Chan 42		Apt Elev	542

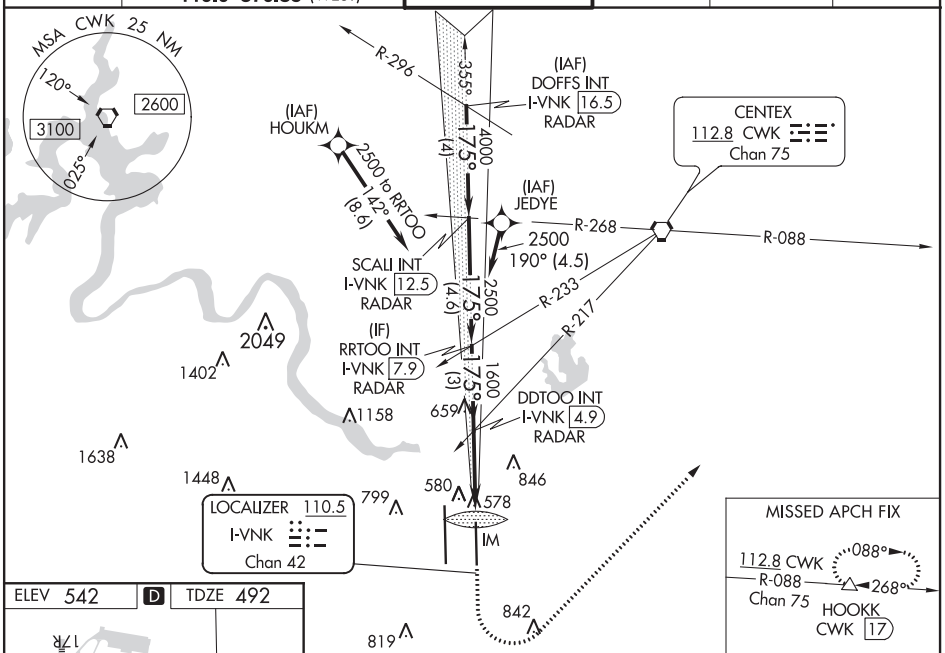
RNAV 1- GPS or RADAR required for procedure entry.
DME required.
From HOUKM, JEDYE: RNAV 1- GPS required.

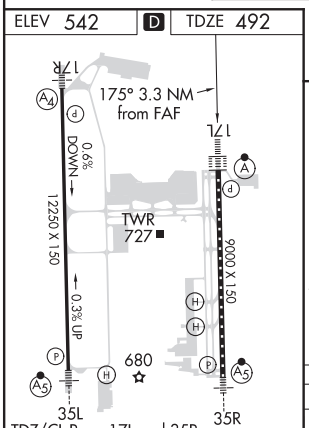
Simultaneous approach authorized. For inop ALS, increase S-ILS 17L Cat E visibility to RVR 4000, and S-LOC 17L Cats C, D, E visibility to RVR 5500.

ALSF-2

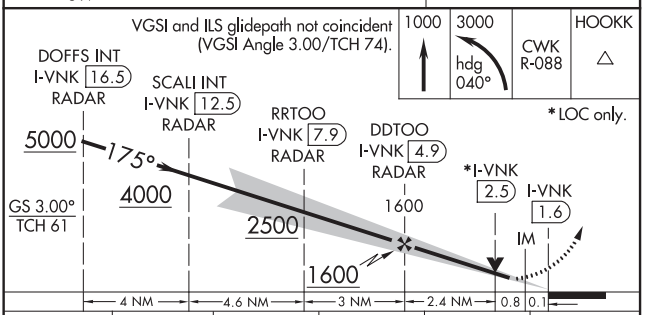
MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 on heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	





FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:17	2:12	1:39	1:19	1:06



CATEGORY	A	B	C	D	E
S-ILS 17L	692/18 200 (200-½)				
S-LOC 17L	840/24 348 (300-½)		840/30 348 (300-⅝)		
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

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AUSTIN, TEXAS | AL-556 (FAA) | 20366

ILS or LOC RWY 17R
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-GFQ	APP CRS	Rwy ldg	12250
110.95	175°	TDZE	542
Chan 46 (Y)		Apt Elev	542

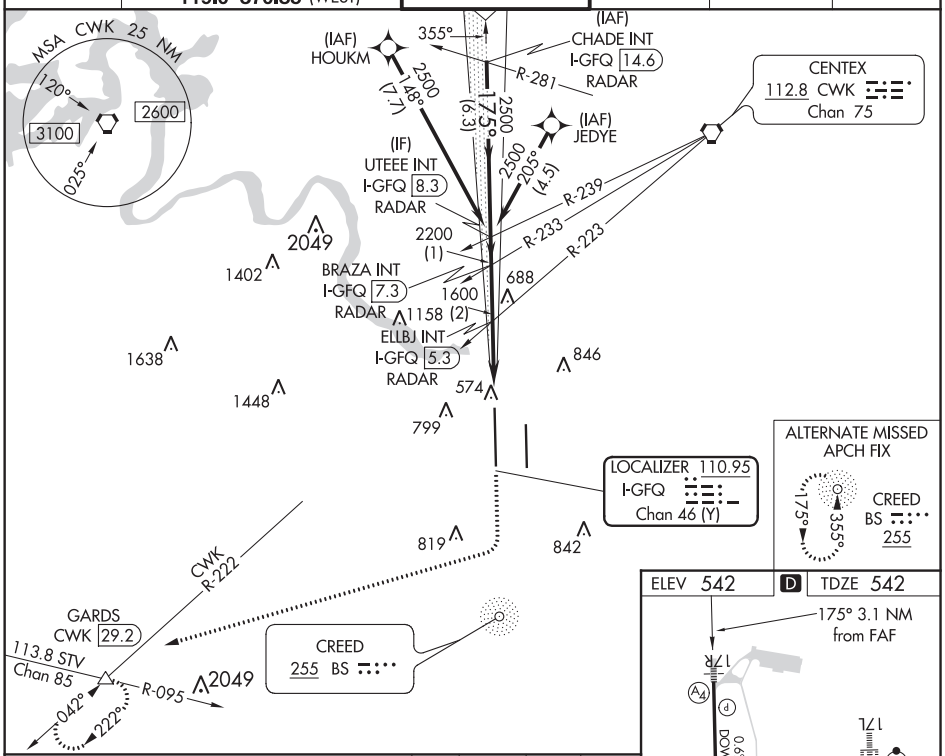
RNAV 1 - GPS or RADAR required for procedure entry.
From HOUKM, JEDYE: RNAV 1 - GPS required.

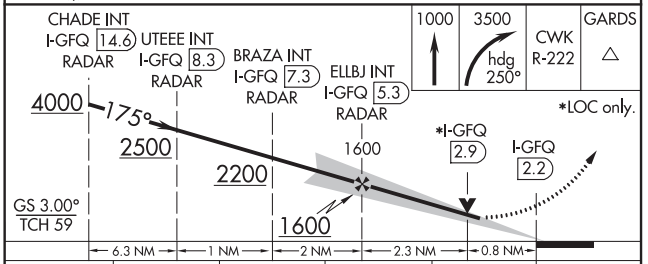
Simultaneous approach authorized. For inop ALS, increase S-LOC 17R Cats C/D/E visibility to RVR 4500.

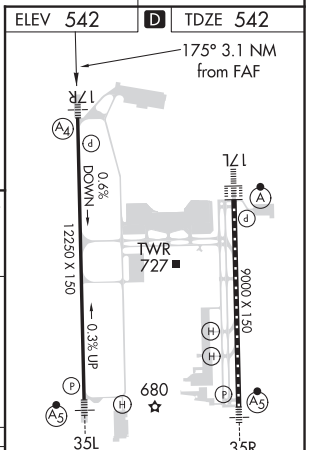
MALS A4

MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 on heading 250° and CWK VORTAC R-222 to GARDS INT/CWK 29.2 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	







CATEGORY	A	B	C	D	E
S-ILS 17R	742/40 200 (200-¾)				
S-LOC 17R	860/40 318 (400-¾)				

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

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ILS or LOC RWY 35L
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-BSM	APP CRS	Rwy ldg	12250
110.95	355°	TDZE	496
Chan 46 (Y)		Apt Elev	542

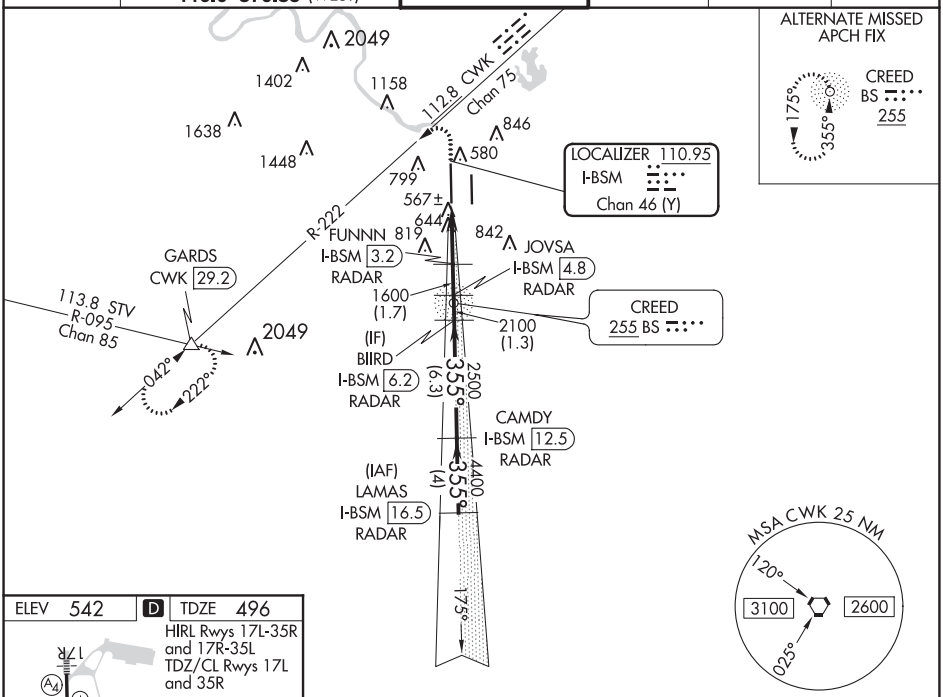
DME or RADAR required.

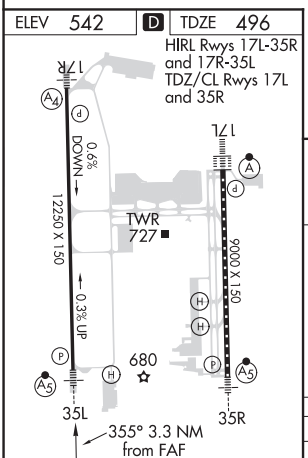
Simultaneous approach authorized. For inop ALS, increase S-ILS 35L Cat E visibility to RVR 4000, S-LOC 35L Cats C/D/E visibility to RVR 6000. Rwy 35L helicopter visibility reduction below ¾ SM NA. **RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

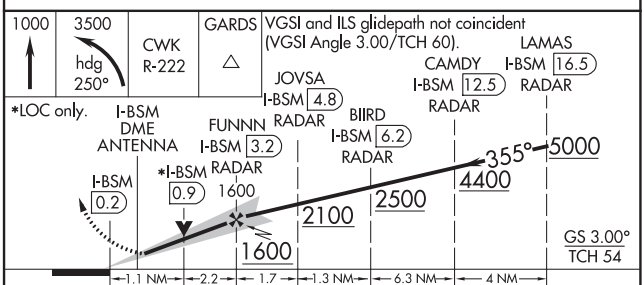
MISSED APPROACH: Climb to 1000 then climbing left turn to 3500 on heading 250° and CWK VORTAC R-222 to GARDS INT/CWK 29.2 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	





FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06



CATEGORY	A	B	C	D	E
S-ILS 35L**	696/24 200 (200-½)				
S-LOC 35L	900/24 404 (400-½)		900/40 404 (400-¾)		

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AUSTIN, TEXAS

AL-556 (FAA)

21056

ILS or LOC RWY 35R
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-HCE	APP CRS	Rwy ldg	9000
110.5	355°	TDZE	480
Chan 42		Apt Elev	542

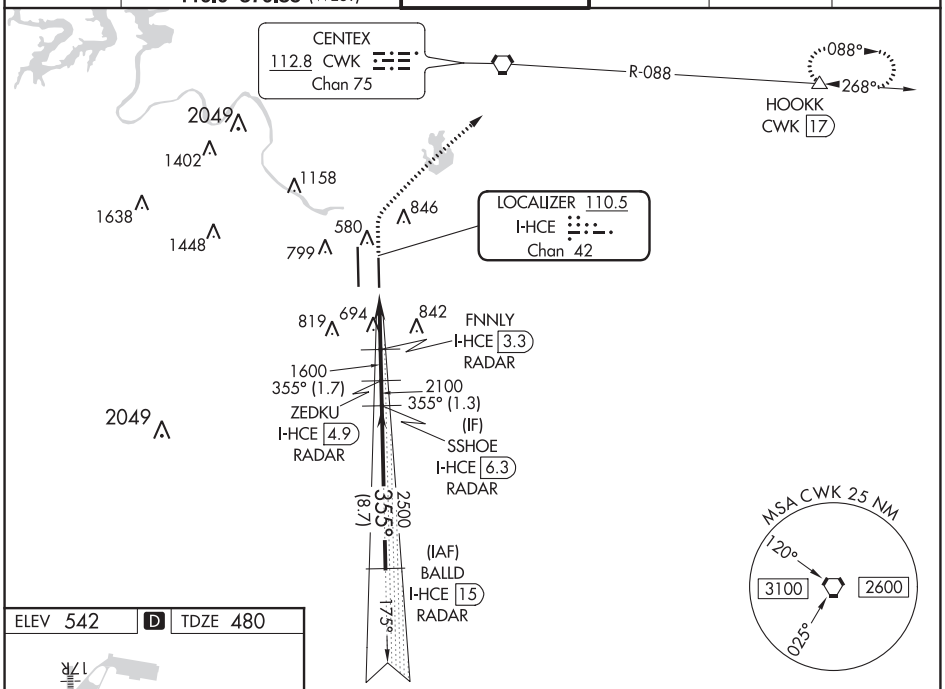
DME required. RADAR required for procedure entry.

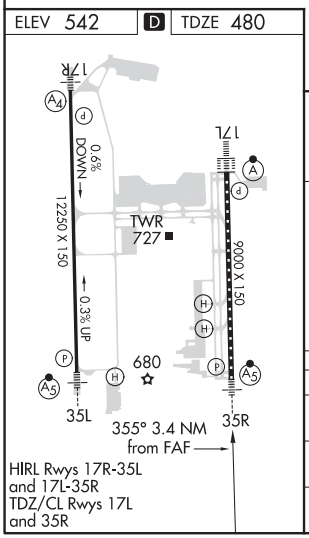
Simultaneous approach authorized.
For inop ALS, increase S-ILS 35R Cat E visibility to RVR 4000, S-LOC 35R Cats C/D/E visibility to 1⅜ SM.

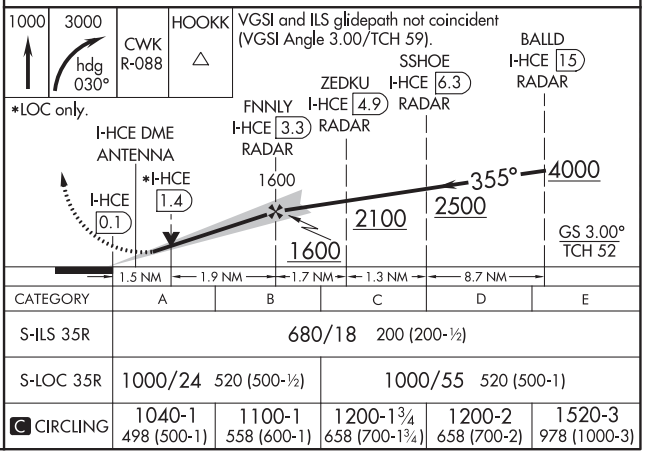
MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 on heading 030° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	







CATEGORY	A	B	C	D	E
S-ILS 35R	680/18 200 (200-½)				
S-LOC 35R	1000/24 520 (500-½)		1000/55 520 (500-1)		
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

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ILS RWY 17L (SA CAT I)
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-VNK	APP CRS	Rwy ldg	9000
110.5	175°	TDZE	492
Chan 42		Apt Elev	542

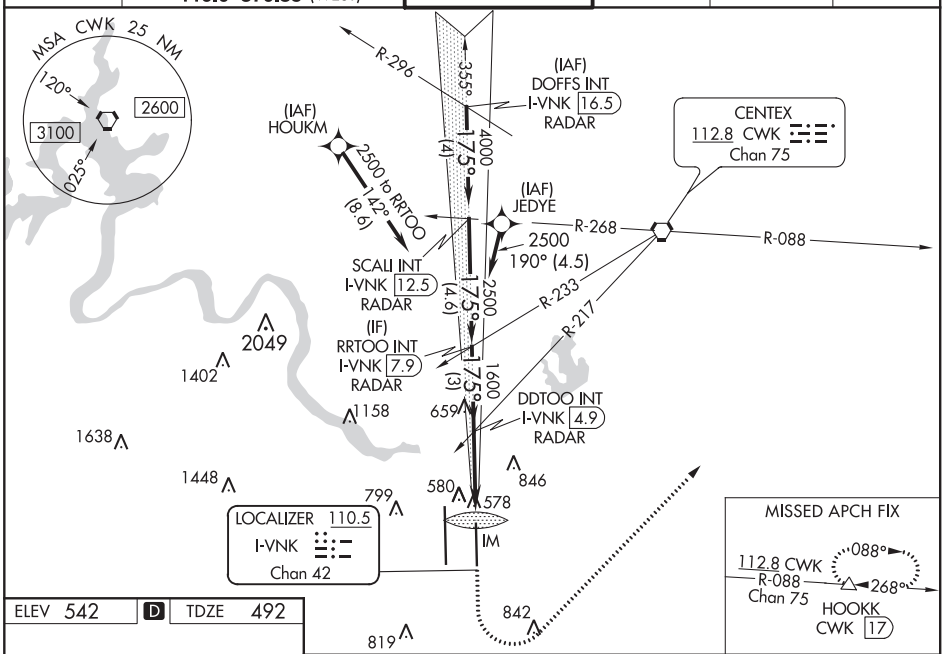
RNAV 1- GPS or RADAR required for procedure entry.
DME required.
From HOUKM, JEDYE: RNAV 1- GPS required.

Simultaneous approach authorized. Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.

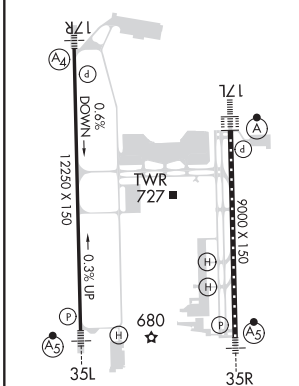
ALSF-2

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 on heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



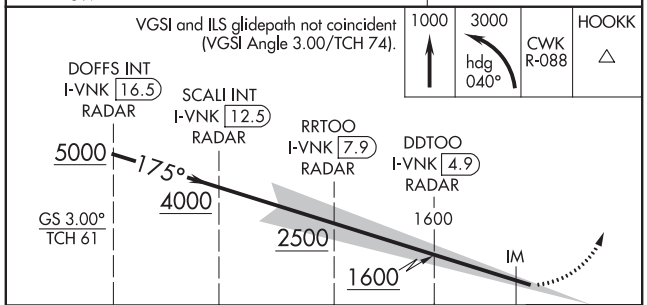
ELEV 542 | D | TDZE 492



TDZ/CL Rwys 17L and 35R
HIRL Rwys 17L-35R and 17R-35L

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 74).

1000	3000	CWK R-088	HOOKK
	hdg 040°		△



CATEGORY	A	B	C	D
S-ILS 17L	RA 155/14 150 DA 642			

SA CATEGORY I - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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AUSTIN, TEXAS

AL-556 (FAA)

21056

ILS RWY 35R (SA CAT I & II)

AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-HCE	APP CRS	Rwy ldg	9000
110.5	355°	TDZE	480
Chan 42		Apt Elev	542

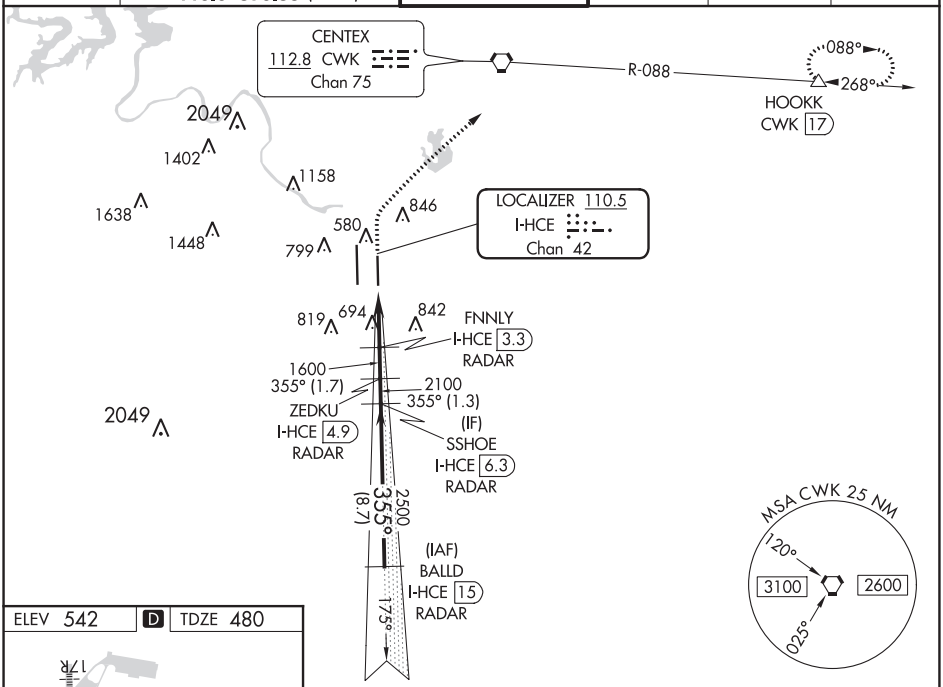
DME required. RADAR required for procedure entry.

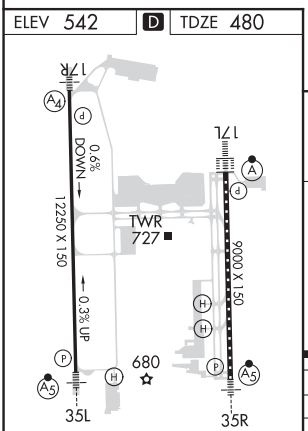
T Simultaneous approach authorized. SA CAT I: Requires specific OPSPEC, MSPEC or LOA approval and use of HUD to DH.
A SA CAT II: Reduced lighting: Requires specific OPSPEC, MSPEC or LOA approval and use of AUTOLAND or HUD to touchdown.

MALSR

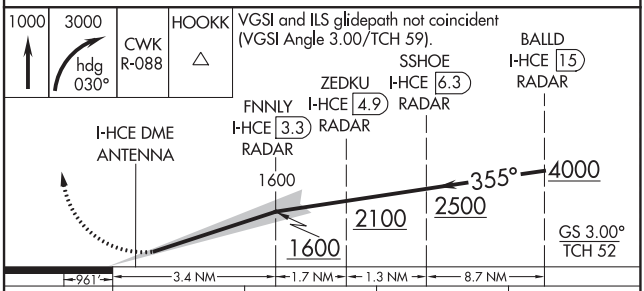
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 on heading 030° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	





HIRL Rwys 17R-35L and 17L-35R
TDZ/CL Rwys 17L and 35R



CATEGORY	A	B	C	D
S-ILS 35R	SA CAT I RA 185/14 150 DA 630			
S-ILS 35R	SA CAT II RA 110/12 100 DA 580			

SA CATEGORY I & II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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ILS RWY 17L (CAT II & III)
AUSTIN-BERGSTROM INTL (AUS)

LOC/DME I-VNK	APP CRS	Rwy ldg	9000
110.5	175°	TDZE	492
Chan 42		Apt Elev	542

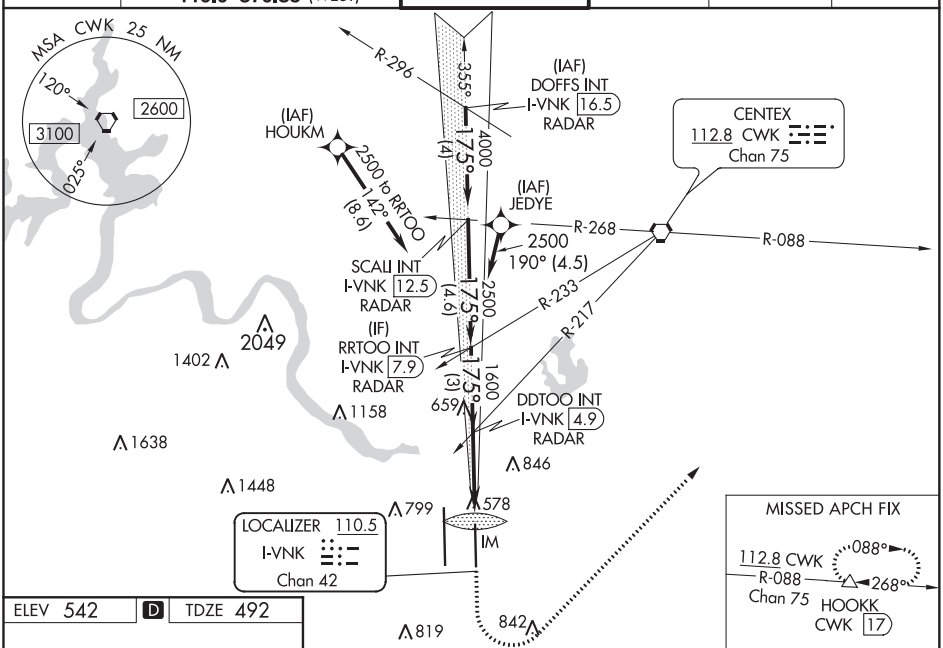
RNAV 1- GPS or RADAR required for procedure entry.
DME required.
From HOUKM, JEDYE: RNAV 1- GPS required.

T A Simultaneous approach authorized.

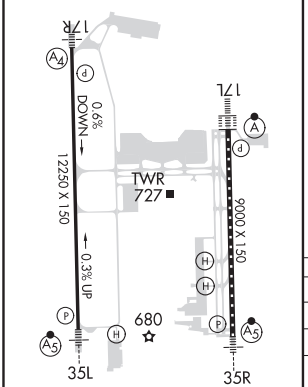
ALSF-2 (A)

MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 heading 040° and CWK VORTAC R-088 to HOOKK/CWK 17 DME and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



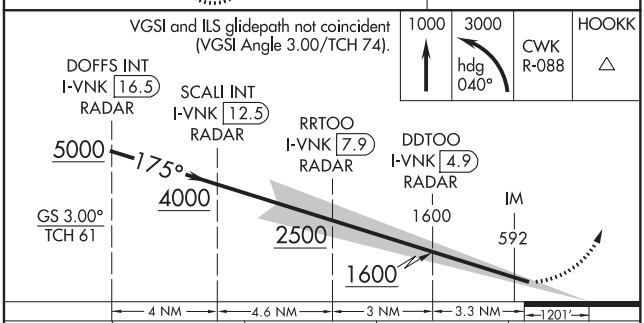
ELEV 542 | D | TDZE 492



TDZ/CL Rwys 17L and 35R
HIRL Rwys 17L-35R and 17R-35L

VGSI and ILS glidepath not coincident
(VGSI Angle 3.00/TCH 74).

1000	3000	CWK R-088	HOOKK
↑	hdg 040°		△



CATEGORY	A	B	C	D
S-ILS 17L	CAT II RA 105/12 100 DA 592			
S-ILS 17L	CAT III RVR 06			

CATEGORY II & III ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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RNAV (RNP) Z RWY 17L

AUSTIN-BERGSTROM INTL (AUS)

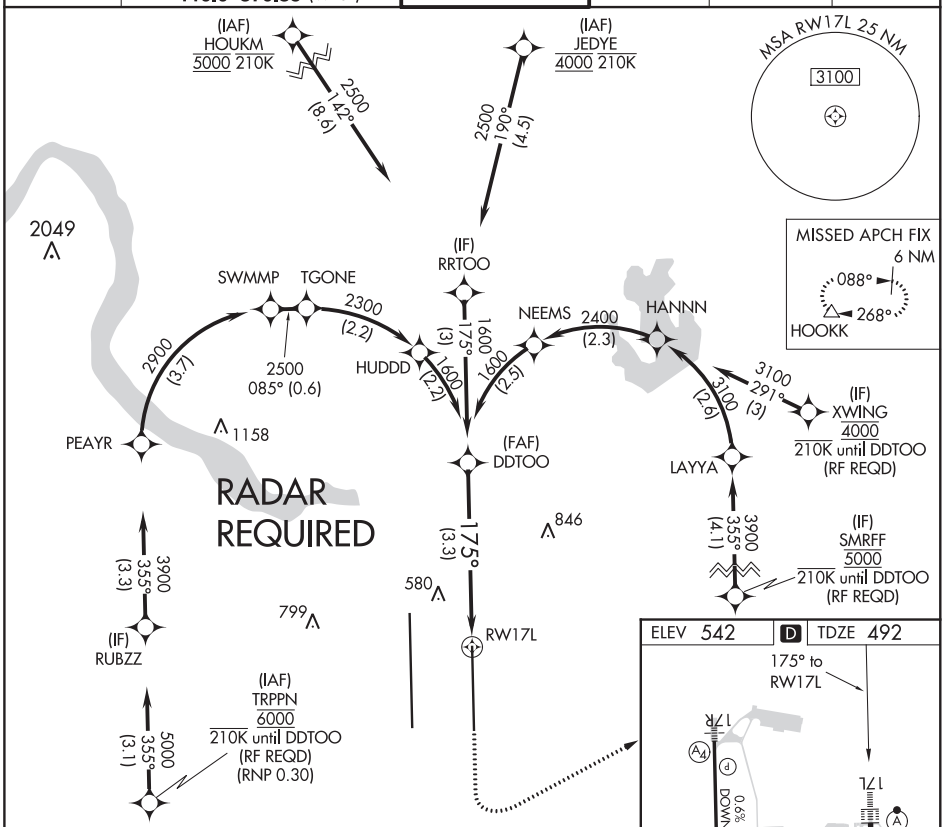
APP CRS	Rwy ldg	9000
175°	TDZE	492
	Apt Elev	542

For uncompensated Baro-VNAV systems, procedure NA below -6°C (22°F) or above 54°C (130°F). Simultaneous approach authorized. GPS required. For inop ALS, increase RNP 0.30 all Cats visibility to 1¼ SM.

ALSF-2

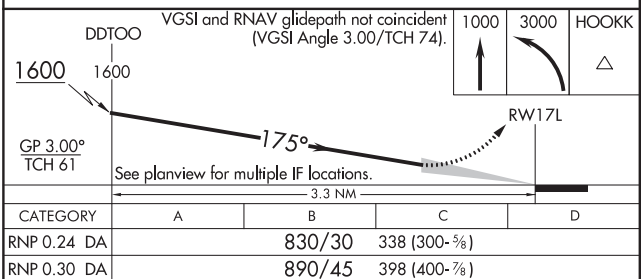
MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct HOOKK and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 74).

1000	3000	HOOKK
↑	↗	△

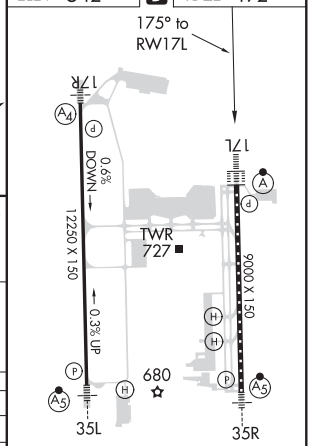


See planview for multiple IF locations.

CATEGORY	A	B	C	D
RNP 0.24 DA	830/30	338 (300-⅝)		
RNP 0.30 DA	890/45	398 (400-⅞)		

AUTHORIZATION REQUIRED

ELEV 542 | D | TDZE 492



HIRL Rwys 17L-35R and 17R-35L
TDZ/CL Rwys 17L and 35R

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APP CRS	Rwy ldg	12250
175°	TDZE	542
	Apt Elev	542

RNAV (RNP) Z RWY 17R
AUSTIN-BERGSTROM INTL (AUS)

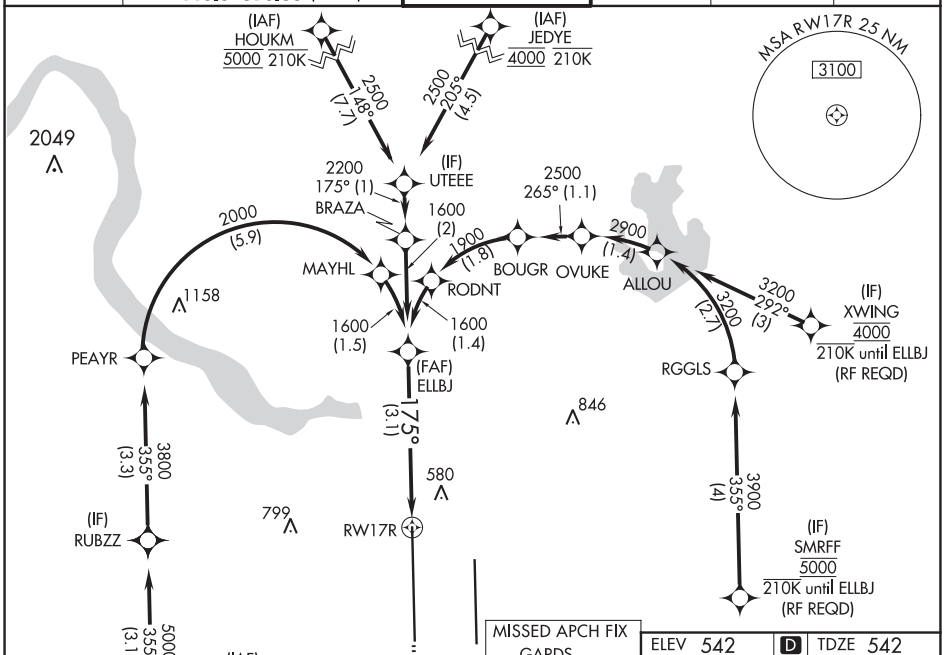
RNP AR APCH. RF required. RADAR required.

Simultaneous approach authorized. For uncompensated Baro-VNAV systems, procedure NA below -5°C or above 54°C.

MALS

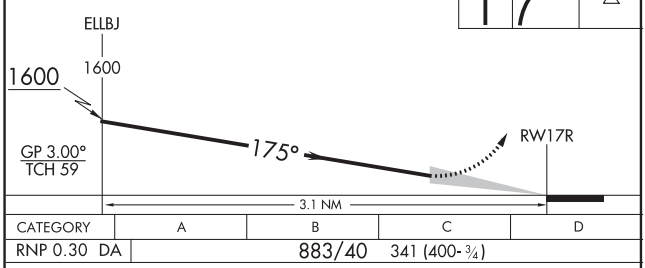
MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct GARDS and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



See planview for multiple IF locations.

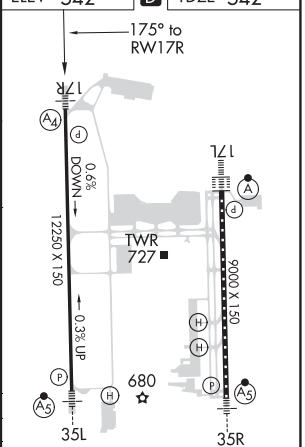
1000	3500	GARDS
↑	↗	△



CATEGORY	A	B	C	D
RNP 0.30 DA	883/40		341 (400-¾)	

AUTHORIZATION REQUIRED

ELEV 542 | D | TDZE 542



TDZ/CL Rwys 17L and 35R
HIRL Rwys 17L-35R and 17R-35L

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APP CRS	Rwy ldg	12250
355°	TDZE	496
	Apt Elev	542

RNAV (RNP) Z RWY 35L
AUSTIN-BERGSTROM INTL (AUS)

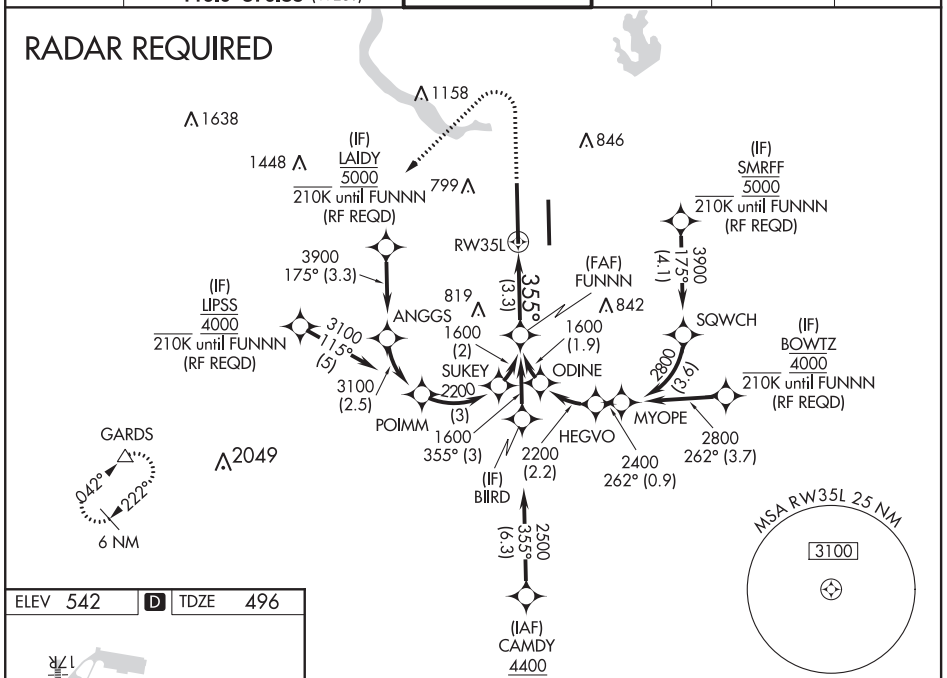
For uncompensated Baro-VNAV systems, procedure NA below -6°C (22°F) or above 54°C (130°F). Simultaneous approach authorized. GPS required. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 4500 and RNP 0.30 all Cats visibility to 1½ SM.

MALSR

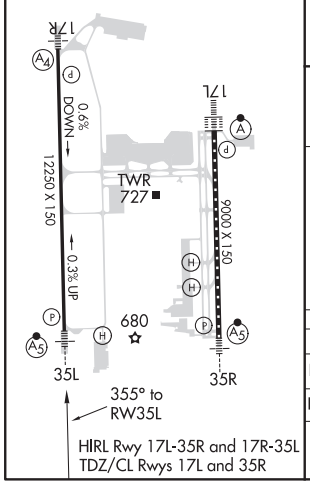
MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 direct GARDS and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	

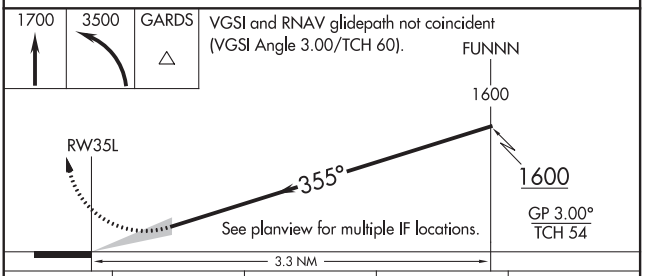
RADAR REQUIRED



ELEV 542 | D | TDZE 496



HIRL Rwy 17L-35R and 17R-35L
TDZ/CL Rwys 17L and 35R



CATEGORY	A	B	C	D
RNP 0.11 DA	765/24 269 (300-½)			
RNP 0.30 DA	952/60 456 (500-1¼)			

AUTHORIZATION REQUIRED

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APP CRS	Rwy ldg	9000
355°	TDZE	480
	Apt Elev	542

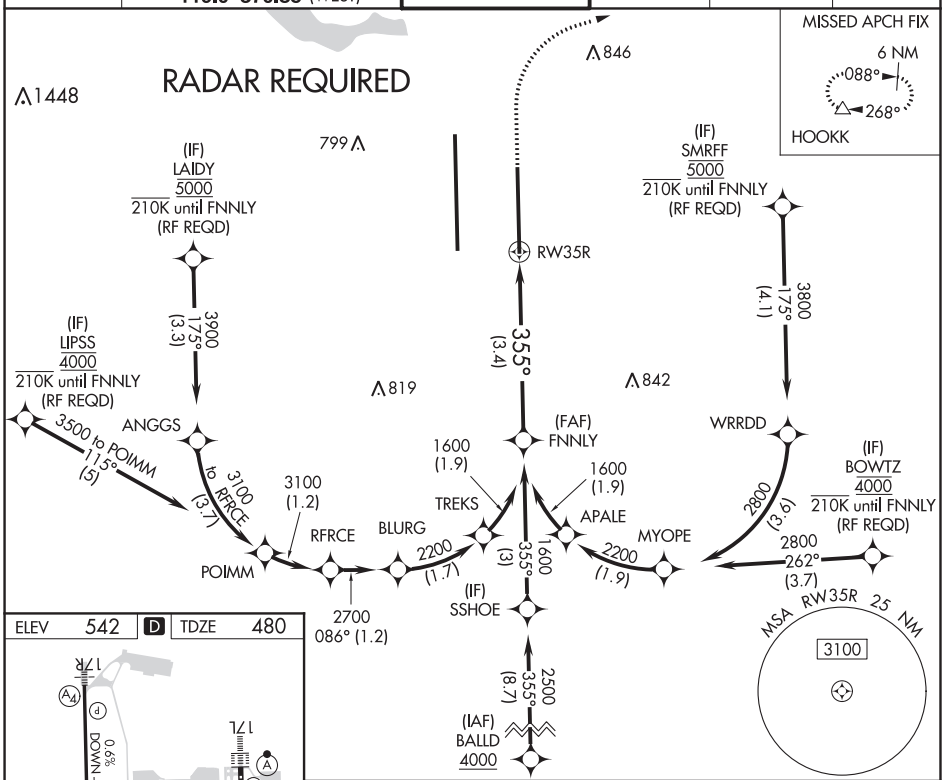
RNAV (RNP) Z RWY 35R

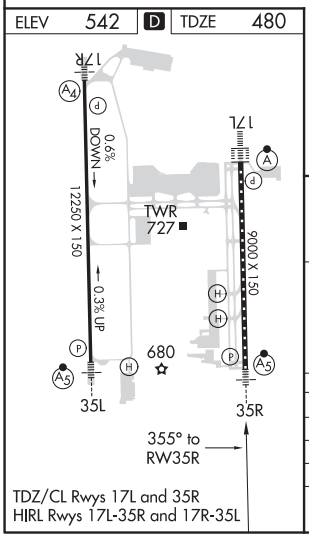
AUSTIN-BERGSTROM INTL (AUS)

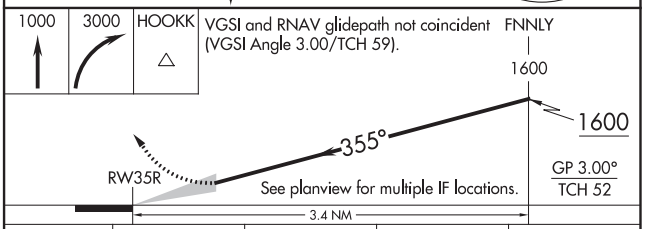
For uncompensated Baro-VNAV systems, procedure NA below -6°C (22°F) or above 54°C (130°F). Simultaneous approach authorized. GPS required. For inop ALS, increase RNP 0.11 all Cats visibility to RVR 4500.

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct HOOKK and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	







CATEGORY	A	B	C	D
RNP 0.11 DA	751/24	271 (300-½)		
RNP 0.16 DA	873/45	393 (400-⅞)		
RNP 0.30 DA	951/60	471 (500-1¼)		

AUTHORIZATION REQUIRED

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WAAS CH 62829 W17A	APP CRS 175°	Rwy ldg 9000 TDZE 492 Apt Elev 542

RNAV (GPS) Y RWY 17L
AUSTIN-BERGSTROM INTL (AUS)

RNP APCH.

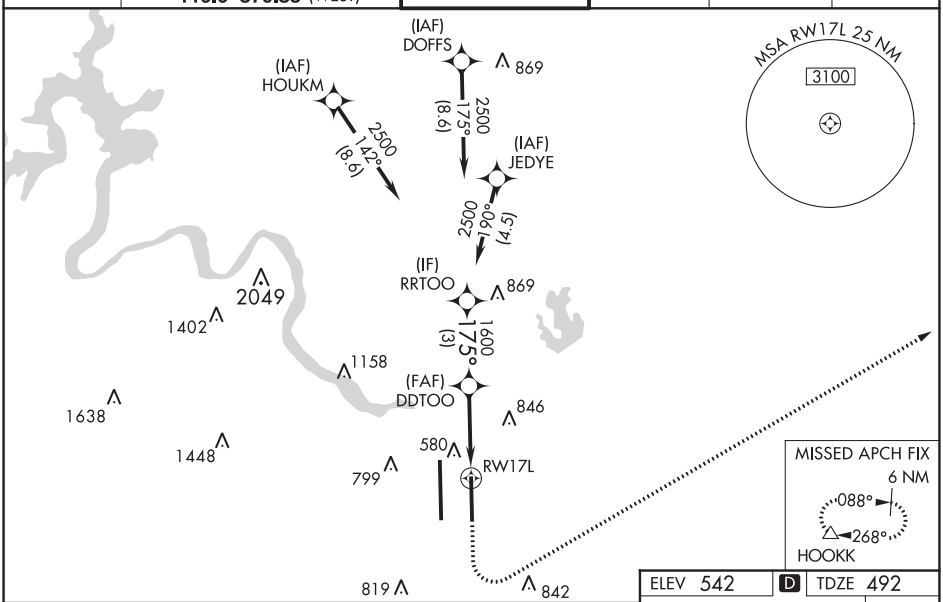
RADAR required for procedure entry.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C or above 54°C. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop ALS, increase visibility LPV Cat E to RVR 4000, LNAV/VNAV Cat E to 1⅜ SM and LNAV Cats C/D/E to 1⅛ SM.

ALSF-2

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct HOOKK and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	

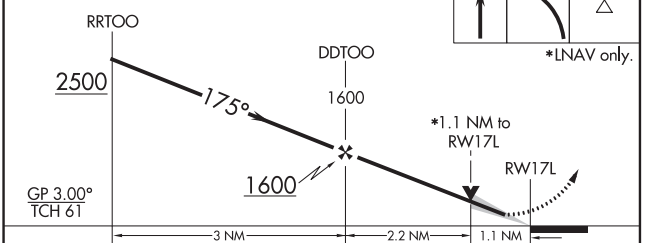


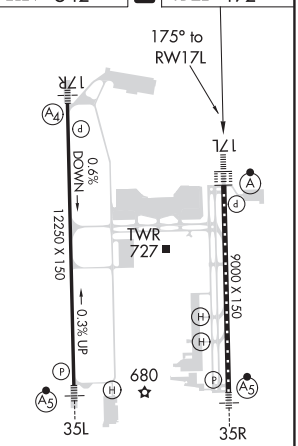
ELEV 542 | D | TDZE 492

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 74).

1000	3000	HOOKK

*LNAV only.





HIRL Rwys 17L-35R and 17R-35L
TDZ/CL Rwys 17L and 35R

CATEGORY	A	B	C	D	E
LPV DA	692/18 200 (200-½)				
LNAV/VNAV DA	906/45 414 (400-⅞)				
LNAV MDA	900/24 408 (400-½)		900/40 408 (400-¾)		
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

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WAAS CH 77530 W17B	APP CRS 175°	Rwy ldg 12250 TDZE 542 Apt Elev 542

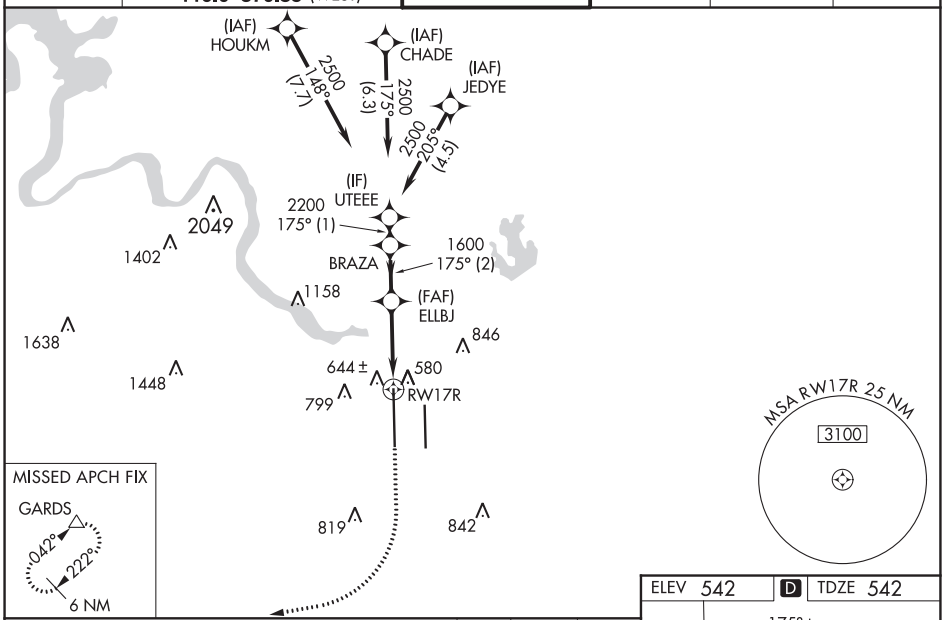
RNAV (GPS) Y RWY 17R
AUSTIN-BERGSTROM INTL (AUS)

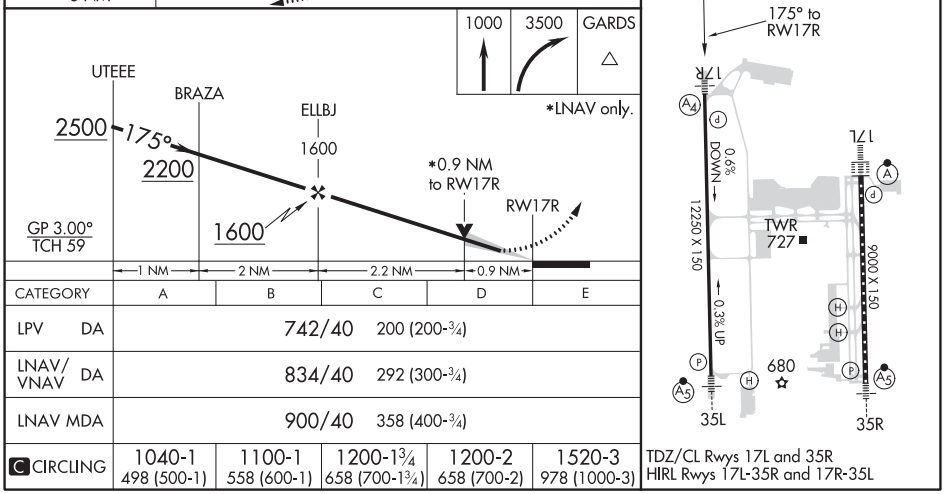
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (22°F) or above 54°C (130°F). Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats visibility to RVR 4500. Increase LNAV visibility all Cats to RVR 5500.

MALS

MISSED APPROACH: Climb to 1000 then climbing right turn to 3500 direct GARDS and hold.

D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	





CATEGORY	A	B	C	D	E
LPV DA	742/40 200 (200-¾)				
LNAV/VNAV DA	834/40 292 (300-¾)				
LNAV MDA	900/40 358 (400-¾)				
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

AUSTIN, TEXAS | AL-556 (FAA) | 20366

WAAS CH 90229 W35A	APP CRS 355°	Rwy ldg 12250 TDZE 496 Apt Elev 542

RNAV (GPS) Y RWY 35L
AUSTIN-BERGSTROM INTL (AUS)

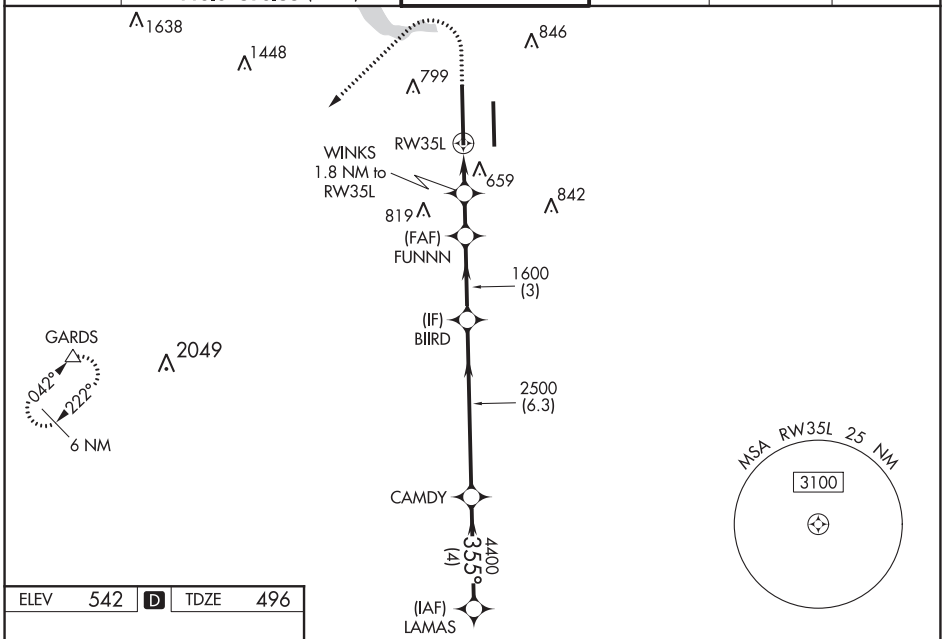
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C or above 54°C. Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. For inop ALS, increase visibility, LPV Cat E to RVR 4000, LNAV/VNAV Cat E to 1⅝ SM, and LNAV Cat E to 1¼ SM. Rwy 35L helicopter visibility reduction below ¾ SM NA.
** RVR 1800 authorized with use of FD or AP or HUD to DA.

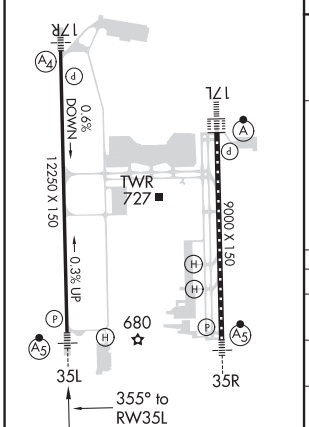
MALSR

MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 direct GARDS and hold.

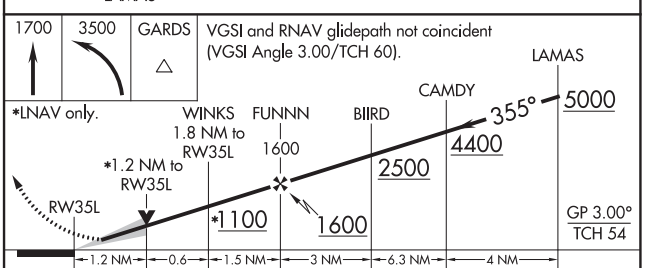
D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



ELEV 542 | D | TDZE 496



HIRL Rwys 17L-35R and 17R-35L
TDZ/CL Rwys 17L and 35R



CATEGORY	A	B	C	D	E
LPV DA **	696/24 200 (200-½)				
LNAV/VNAV DA	972/60 476 (500-1¼)				
LNAV MDA	920/24 424 (400-½)		920/40 424 (400-¾)		
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

SC-3, 25 FEB 2021 to 22 APR 2021

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WAAS CH 99429 W35B	APP CRS 355°	Rwy ldg 9000 TDZE 480 Apt Elev 542

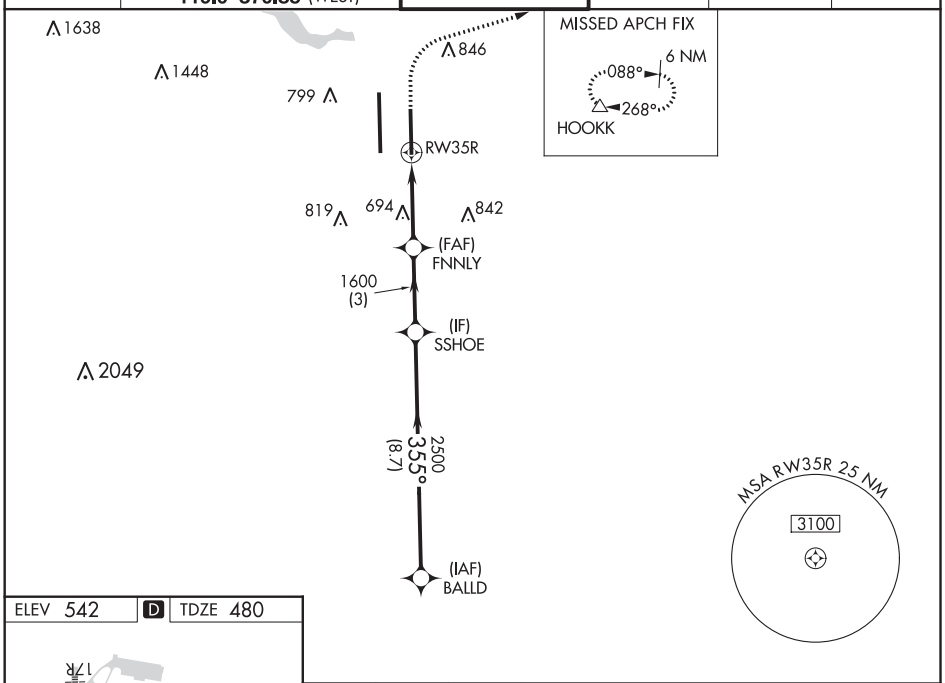
RNAV (GPS) Y RWY 35R
AUSTIN-BERGSTROM INTL (AUS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (22°F) or above 54°C (130°F). Simultaneous approach authorized. LNAV procedure NA during simultaneous operations. Use of FD or AP providing RNAV track guidance required during simultaneous operations. DME/DME RNP-0.3 NA. For inop ALS increase LPV Cat E visibility to RVR 4000, LNAV/VNAV Cat E visibility to 1⅝ SM and LNAV Cats C/D/E visibility to 1⅜ SM.

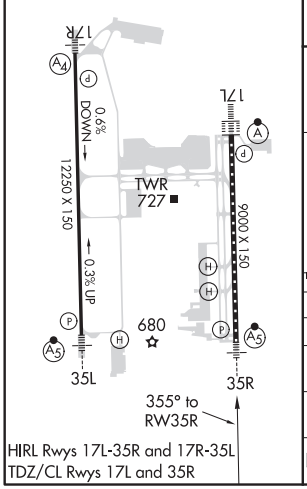
MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct HOOKK and hold.

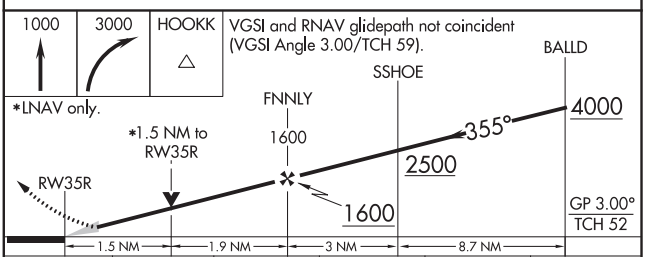
D-ATIS	AUSTIN APP CON	AUSTIN TOWER	GND CON	CLNC DEL	CPDLC
124.4	127.225 317.65 (EAST) 120.875 270.25 (SOUTH) 119.0 370.85 (WEST)	121.0 281.5	121.9 348.6	125.5 263.0	



ELEV 542 | D | TDZE 480



HIRL Rwys 17L-35R and 17R-35L
TDZ/CL Rwys 17L and 35R



CATEGORY	A	B	C	D	E
LPV DA	680/18 200 (200-½)				
LNAV/VNAV DA	971-1¼ 491 (500-1¼)				
LNAV MDA	1000/24 520 (500-½)		1000/55 520 (500-1)		
C CIRCLING	1040-1 498 (500-1)	1100-1 558 (600-1)	1200-1¾ 658 (700-1¾)	1200-2 658 (700-2)	1520-3 978 (1000-3)

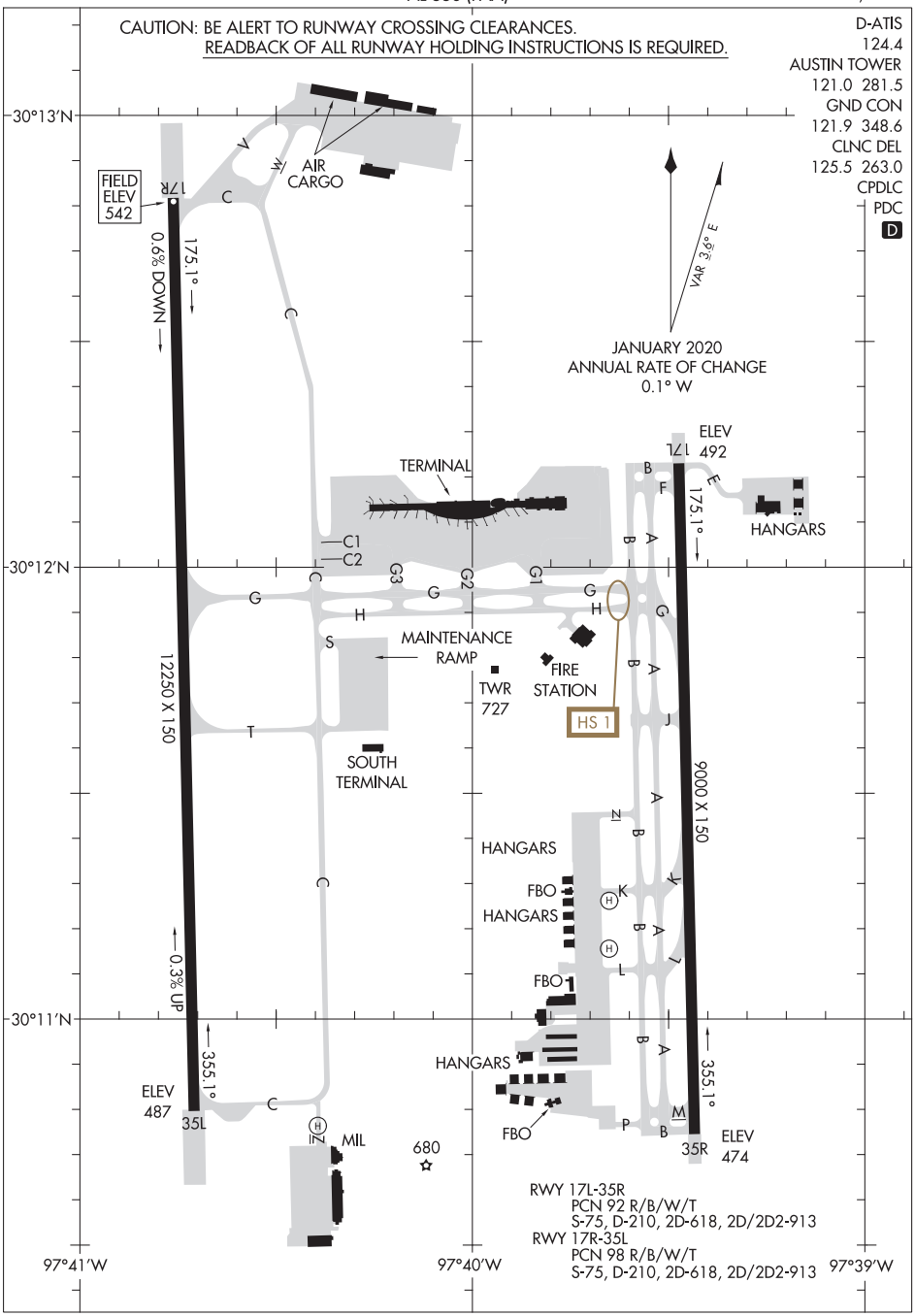
SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

20366

AIRPORT DIAGRAM

AL-556 (FAA)

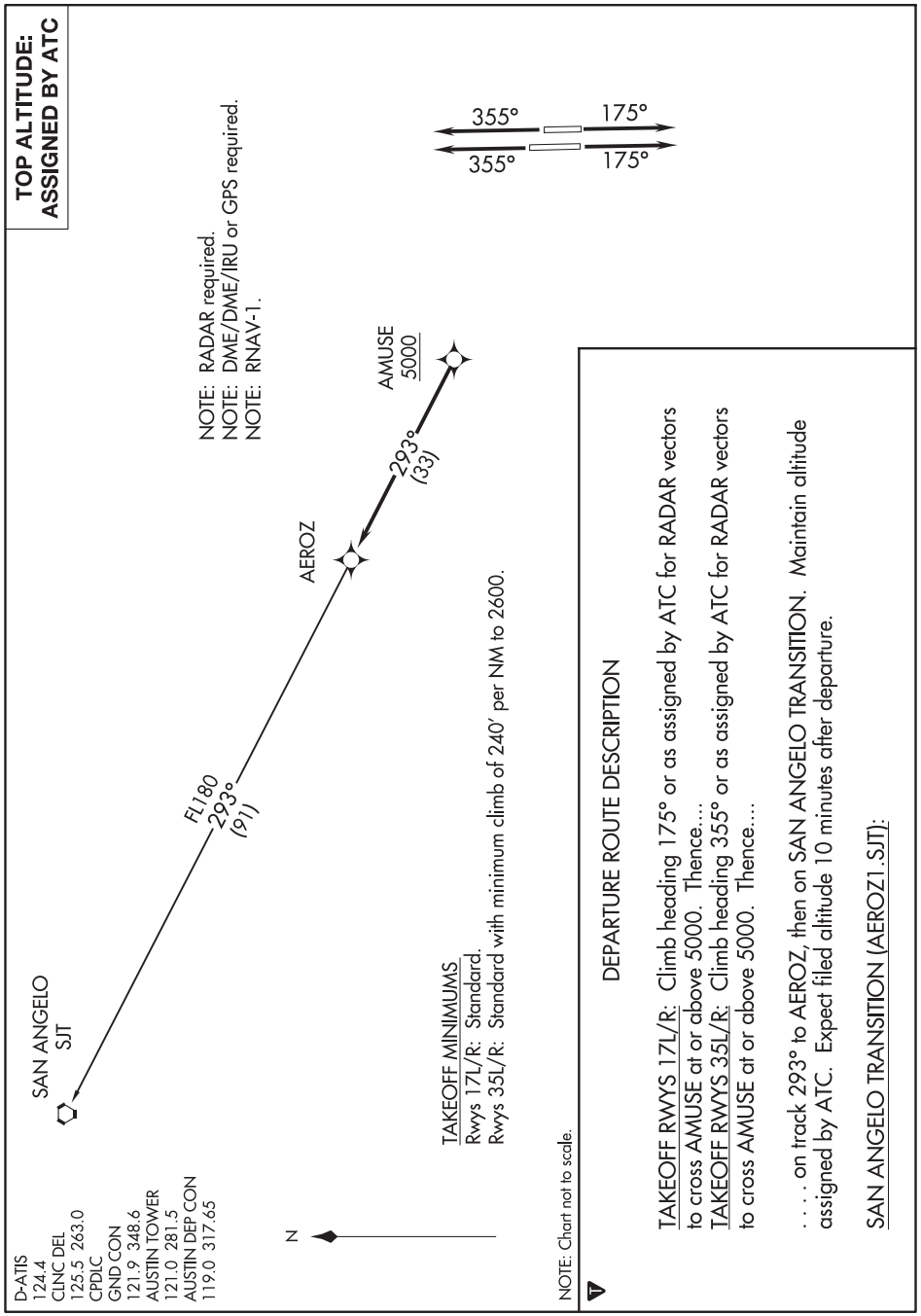
AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20366
AUSTIN, TEXAS
AUSTIN-BERGSTROM INTL (AUS)


TOP ALTITUDE:
ASSIGNED BY ATC
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
355°
175°
355°
175°
AMUSE
5000
293°
(33)
AEROZ
FL180
293°
(91)
SAN ANGELO
SJT
D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
119.0 317.65
N
TAKEOFF MINIMUMS
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240' per NM to 2600.
NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RWYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.
SAN ANGELO TRANSITION (AEROZ1.SJT):

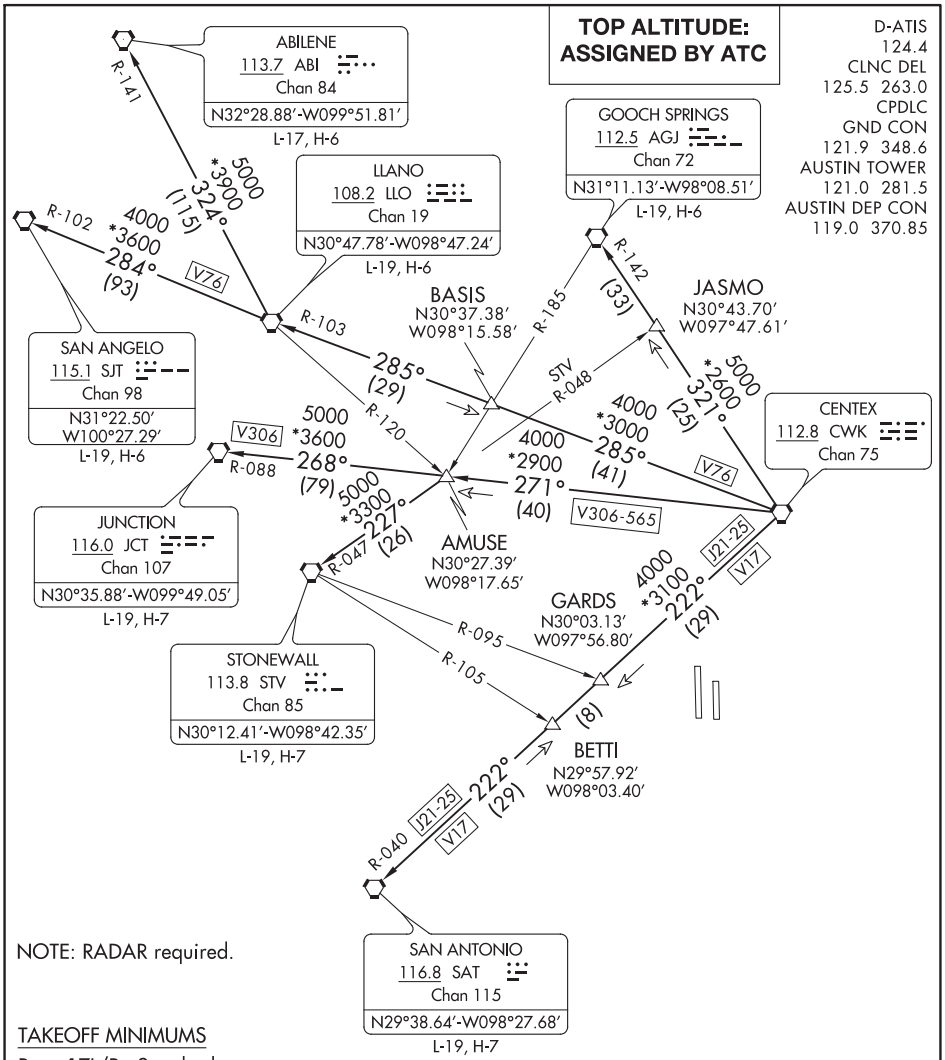
(AUS5.CWK) 17341

AUSTIN FIVE DEPARTURE

AUSTIN-BERGSTROM INTL (AUS)

AUSTIN, TEXAS

AL-556 (FAA)



NOTE: RADAR required.

TAKEOFF MINIMUMS

Rwys 17L/R: Standard.

Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 25 FEB 2021 to 22 APR 2021

AUSTIN FIVE DEPARTURE

(AUS5.CWK) 07DEC17

AUSTIN, TEXAS

AUSTIN-BERGSTROM INTL (AUS)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R, 35L/R: Climb on assigned heading for vectors, then on assigned transition. Maintain altitude assigned by ATC, expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (AUS5.ABI): From over CWK VORTAC on CWK R-285 and LLO R-103 to LLO VORTAC, then on LLO R-324 and ABI R-141 to ABI VORTAC.

GOOCH SPRINGS TRANSITION (AUS5.AGJ): From over CWK VORTAC on CWK R-321 and AGJ R-142 to AGJ VORTAC.

JUNCTION TRANSITION (AUS5.JCT): From over CWK VORTAC on CWK R-271 and JCT R-088 to JCT VORTAC.

LLANO TRANSITION (AUS5.LLO): From over CWK VORTAC on CWK R-285 and LLO R-103 to LLO VORTAC.

SAN ANGELO TRANSITION (AUS5.SJT): From over CWK VORTAC on CWK R-285 and LLO R-103 to LLO VORTAC, then on LLO R-284 and SJT R-102 to SJT VORTAC.

SAN ANTONIO TRANSITION (AUS5.SAT): From over CWK VORTAC on CWK R-222 and SAT R-040 to SAT VORTAC.

STONEWALL TRANSITION (AUS5.STV): From over CWK VORTAC on CWK R-271 and STV R-047 to STV VORTAC.

SC-3, 25 FEB 2021 to 22 APR 2021

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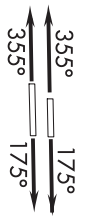
(BNDIA2.BNDIA) 17341 AL-556 (FAA)

BNDIA TWO DEPARTURE (RNAV)

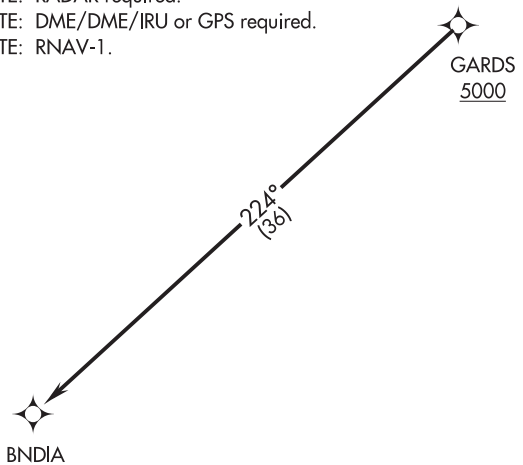
AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
119.0 370.85



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.



TAKEOFF MINIMUMS:
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

RWYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000, thence . . . .
RWYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000, thence . . . .

. . . . on track 224° to BNDIA. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 25 FEB 2021 to 22 APR 2021

CENTEX SIX DEPARTURE

AL-556 (FAA)

AUSTIN, TEXAS

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
127.225 317.65

TOP ALTITUDE: ASSIGNED BY ATC

CEDAR CREEK
114.8 CQY
Chan 95

WACO
115.3 ACT
Chan 100
N31°39.74′ - W97°16.14′
L-19, H-6

NAVYS
N31°23.29′
W096°18.82′
L-19-21, H-5

GOOCH SPRINGS
112.5 AGJ
Chan 72

LEONA
110.8 LOA
Chan 45

COLLEGE STATION
113.3 CLL
Chan 80
N30°36.30′ - W96°25.24′
L-19-21, H-7

DARTE
N30°45.97′
W097°27.11′

MUNCH
N30°34.58′
W097°17.68′

NAVASOTA
115.9 TNV
Chan 106
N30°17.31′
W96°03.49′
L-19-21, H-7

CENTEX
112.8 CWK
Chan 75
N30°22.71′
W97°31.79′

JAYJO
N30°20.23′
W096°48.90′
L-19-21

HOOKK
N30°21.60′
W097°12.18′

ILEXY
N30°21.17′
W097°04.76′
L-19-21

INDUSTRY
110.2 IDU
Chan 39

R-180 R-181 R-304 R-120 R-306 R-238 R-224 R-266 R-322 V17 J-21-25 V306 23 37 87

4000 *3600 001° (54)
10000 *2100 040° (70)
4000 *3600 004° (24)
4000 *2100 040° (17)
4000 *2000 058° (37)
4000 *2100 088° (17)
(6)
(14)
4000 *2100 086° (39)

TAKEOFF MINIMUMS
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: RADAR required.
NOTE: COLLEGE STATION TRANSITION for aircraft requesting 9000 MSL to FL230.
NOTE: ILEXY TRANSITION for turboprop and turbojet aircraft landing HOU; for turbojet aircraft landing EFD, GLS, or LXB; for all aircraft landing IAH.
NOTE: JAYJO TRANSITION for piston aircraft landing HOU; for piston and turboprop aircraft landing EFD, GLS or LXB; for all aircraft landing other west/south HOUSTON TERMINAL AREA AIRPORTS.
NOTE: NAVYS TRANSITION only for aircraft destined to the Dallas/Fort Worth terminal area requesting FL230 and below.
NOTE: WACO TRANSITION for aircraft requesting 12000′ MSL and below.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R, 35L/R: Climb on assigned heading for vectors, then on assigned transition. Maintain altitude assigned by ATC, expect filed altitude 10 minutes after departure.

COLLEGE STATION TRANSITION (CWK6.CLL): From over CWK VORTAC on CWK R-088 to ILEXY INT, then on CLL R-238 to CLL VORTAC.

ILEXY TRANSITION (CWK6.ILEXY): From over CWK VORTAC on CWK R-088 to ILEXY INT.

JAYJO TRANSITION (CWK6.JAYJO): From over CWK VORTAC on CWK R-088 to JAYJO INT.

NAVASOTA TRANSITION (CWK6.TNV): From over CWK VORTAC on CWK R-088 and TNV R-266 to TNV VOR/DME.

NAVYS TRANSITION (CWK6.NAVYS): From over CWK VORTAC on CWK R-040 to NAVYS INT.

WACO TRANSITION (CWK6.ACT): From over CWK VORTAC on CWK R-004 and ACT R-181 to ACT VORTAC.

SC-3, 25 FEB 2021 to 22 APR 2021

ELOEL TWO DEPARTURE (RNAV)

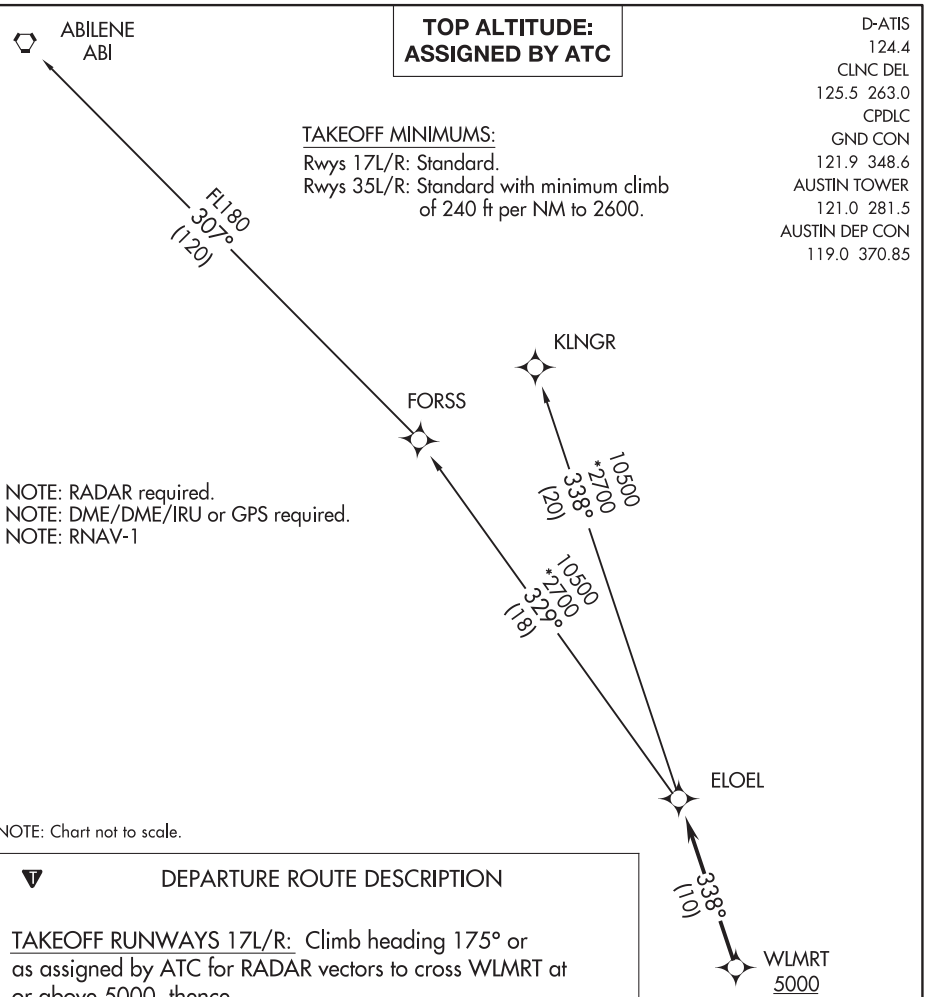
AL-556 (FAA)

AUSTIN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240 ft per NM to 2600.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RUNWAYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence . . . .

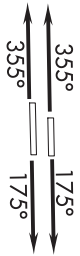
. . . . On track 338° to ELOEL, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

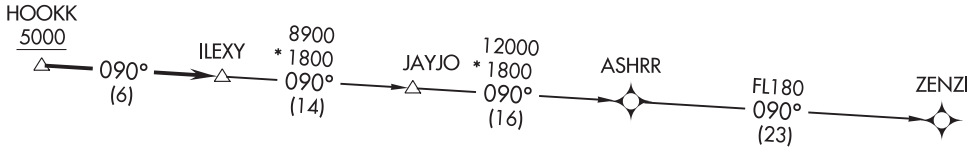
ABILENE TRANSITION (ELOEL2.ABI):
FORSS TRANSITION (ELOEL2.FORSS):
KLNGR TRANSITION (ELOEL2.KLNGR):

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
127.225 317.65





TAKEOFF MINIMUMS
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....

. . . . on track 90° to ILEXY, then on transition. Maintain altitude assigned by ATC.
Expect filed altitude 10 minutes after departure.

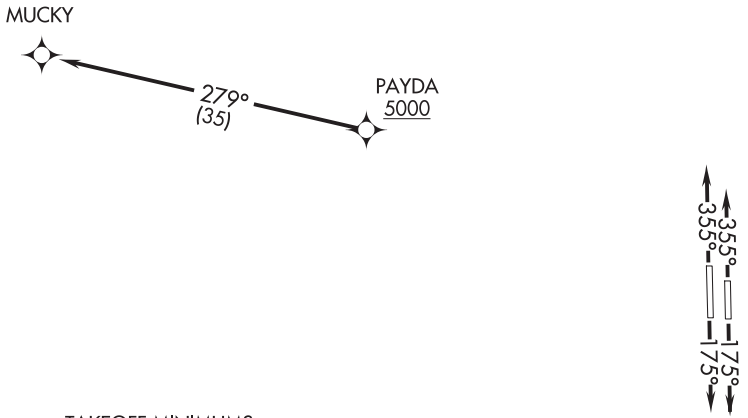
JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSITION (ILEXY2.ZENZI):

MUCKY TWO DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
119.0 370.85

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.



TAKEOFF MINIMUMS
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RWYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .

. . . .on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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(PALMS2.CRP) 17341

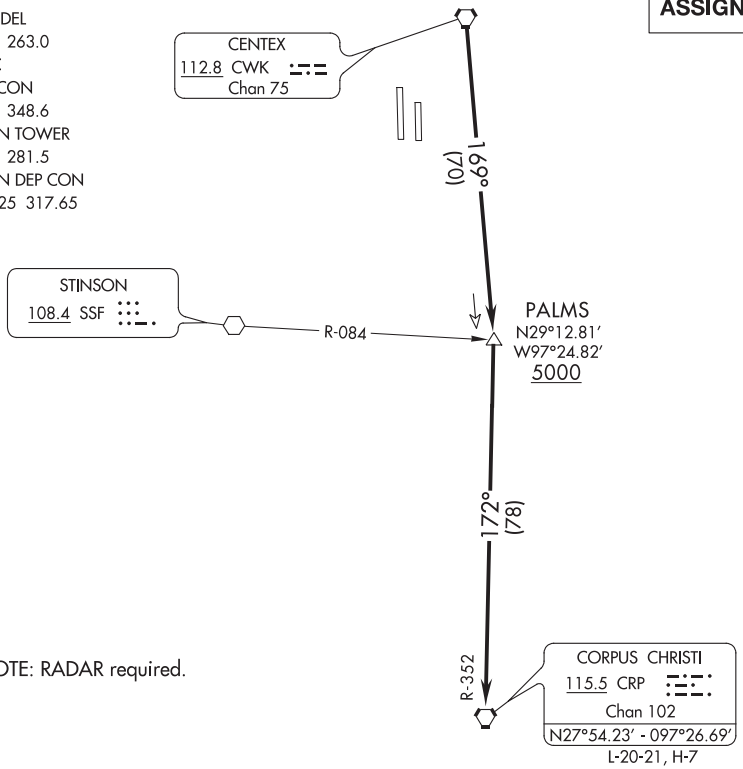
PALMS TWO DEPARTURE

AL-556 (FAA)

AUSTIN-BERGSTROM INTL (AUS)
AUSTIN, TEXAS

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
127.225 317.65

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.

TAKEOFF MINIMUMS

Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

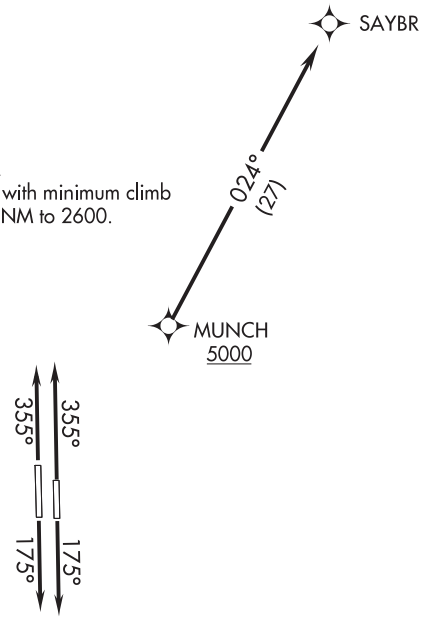
TAKEOFF RWYS 17L/R, 35L/R: Climb on assigned heading for vectors to CWK VORTAC, then on CWK R-169 to cross PALMS INT at or above 5000, then on CRP R-352 to CRP VORTAC. Maintain altitude assigned by ATC, expect filed altitude 10 minutes after departure.

SAYBR TWO DEPARTURE (RNAV)

AL-556 (FAA)

D-ATIS
124.4
CLNC DEL
125.5 263.0
CPDLC
GND CON
121.9 348.6
AUSTIN TOWER
121.0 281.5
AUSTIN DEP CON
127.225 317.65

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS:
Rwys 17L/R: Standard.
Rwys 35L/R: Standard with minimum climb of 240′ per NM to 2600.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 17L/R: Climb heading 175° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence . . . .
TAKEOFF RWYS 35L/R: Climb heading 355° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence . . . .

. . . . on track 024° to SAYBR. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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AUSTIN, TEXAS | AL-502 (FAA) | 20142

ILS or LOC RWY 13
SAN MARCOS RGNL (HYI)

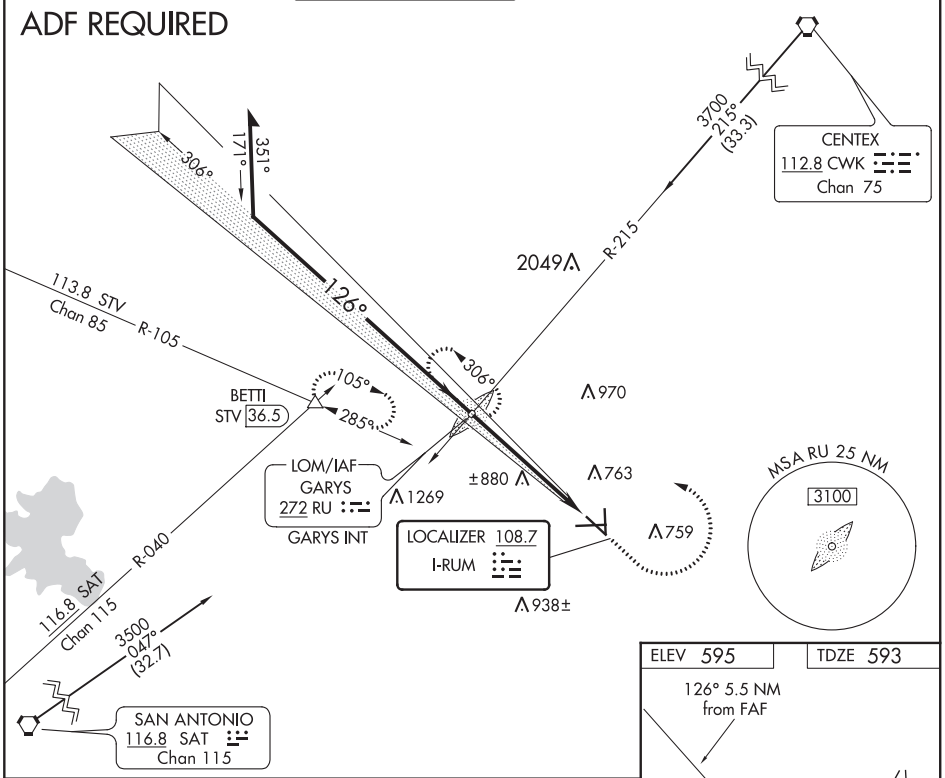
LOC I-RUM	APP CRS	Rwy ldg / TDZE / Apt Elev
108.7	126°	5601 / 593 / 595

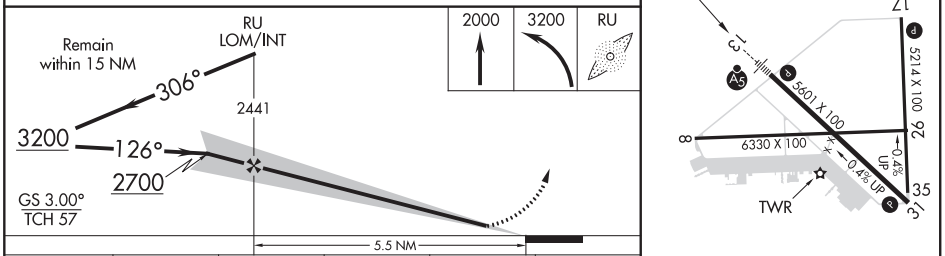
T NA — Circling Cat E NA southwest of Rwy 13-31. For inop MALSR, increase S-ILS 13 Cat E visibility ¼ mile, and S-LOC 13 Cat E ½ mile. ADF required.

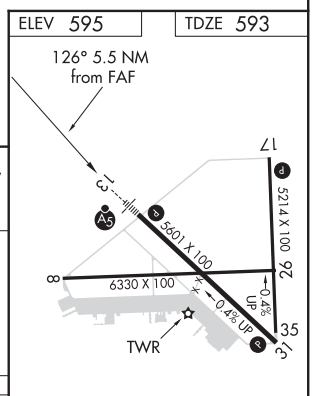
MALSR — MISSED APPROACH: Climb to 2000 then climbing left turn to 3200 direct GARYS LOM and hold.

ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)

ADF REQUIRED







MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26

CATEGORY	A	B	C	D	E
S-ILS-13	793-½ 200 (200-½)				
S-LOC-13	1260-½ 667 (700-½)		1260-1¼ 667 (700-1¼)	1260-1½ 667 (700-1½)	1260-2 667 (700-2)
C CIRCLING	1260-1 665 (700-1)		1260-1¾ 665 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 72932 W08A	APP CRS 081°	Rwy ldg 6330 TDZE 589 Apt Elev 595

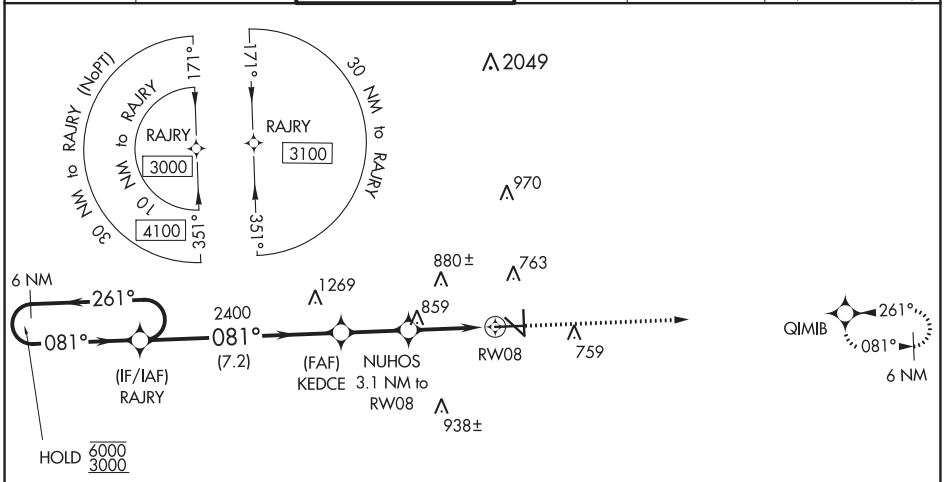
RNAV (GPS) RWY 8
SAN MARCOS RGNL (HYI)

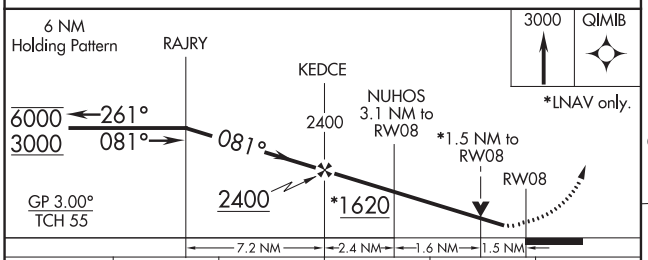
RNP APCH.

Circling NA for Cat E SW of Rwy 13-31. Rwy 8 helicopter visibility reduction below ¾ SM NA. Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. VDP NA with New Braunfels altimeter setting. When local altimeter setting not received, use New Braunfels altimeter setting and increase LPV DA to 882, LNAV/VNAV DA to 953 and increase all MDA 60 feet; increase LNAV Cat C/D/E and Circling Cat C/D visibility ¼ SM.

MISSED APPROACH: Climb to 3000 direct QIMIB and hold.

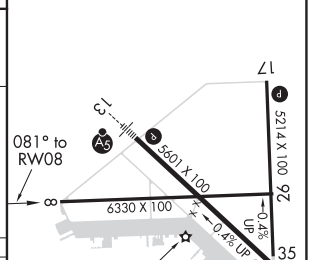
ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)





CATEGORY	A	B	C	D	E
LPV DA	839-1 250 (300-1)				
LNAV/VNAV DA	910-1 321 (400-1)				
LNAV MDA	1120-1 531 (600-1)		1120-1½ 531 (600-1½)		
C CIRCLING	1120-1 525 (600-1)		1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

ELEV 595 TDZE 589



MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26

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AUSTIN, TEXAS

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RNAV (GPS) RWY 13

SAN MARCOS RGNL (HYI)

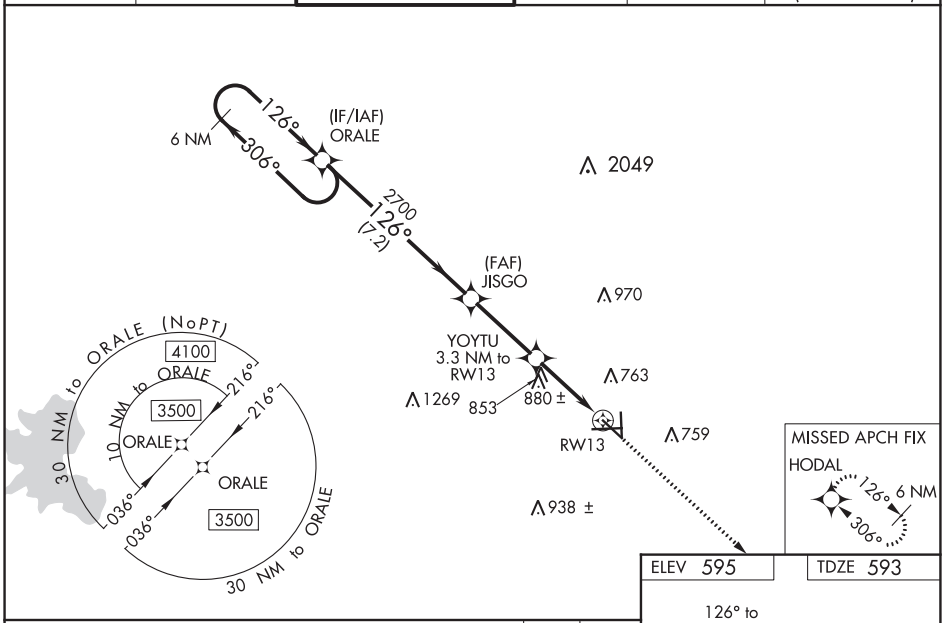
WAAS CH 86232 W13A	APP CRS 126°	Rwy ldg 5601 TDZE 593 Apt Elev 595

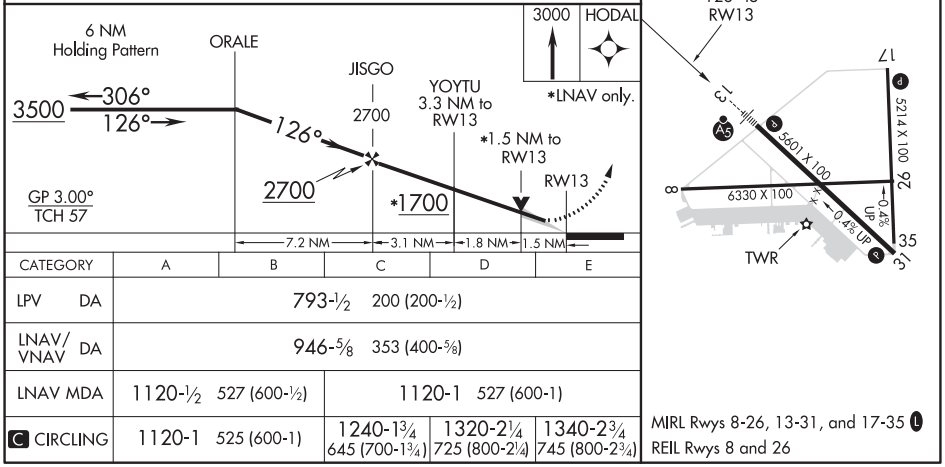
T A Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LNAV/VNAV all Cats, LNAV Cat C/D/E and Circling Cat C/D visibility ¼ mile. For inoperative MALSR, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1⅛ and LNAV Cat E visibility to 1½ . For inoperative MALSR when using New Braunfels altimeter setting, increase LPV Cat E visibility to ¾, LNAV/VNAV Cat E visibility to 1¼ and LNAV Cat E visibility to 1¾ . Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 direct HODAL and hold.

ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)





CATEGORY	A	B	C	D	E
LPV DA	793-½ 200 (200-½)				
LNAV/VNAV DA	946-⅝ 353 (400-⅝)				
LNAV MDA	1120-½ 527 (600-½)		1120-1 527 (600-1)		
C CIRCLING	1120-1 525 (600-1)		1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26

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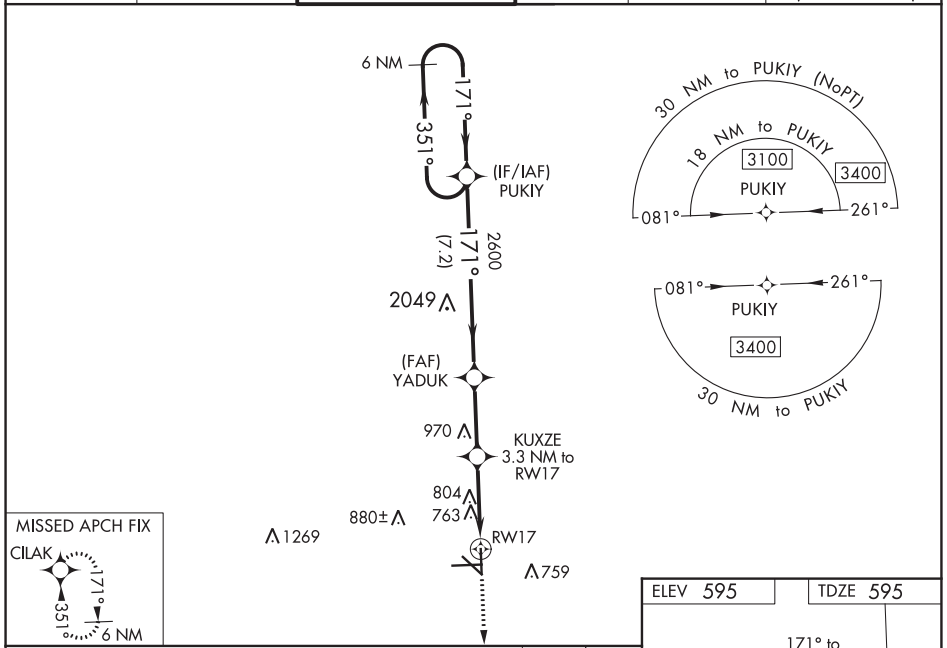
WAAS CH 77832 W17A	APP CRS 171°	Rwy ldg 5214 TDZE 595 Apt Elev 595

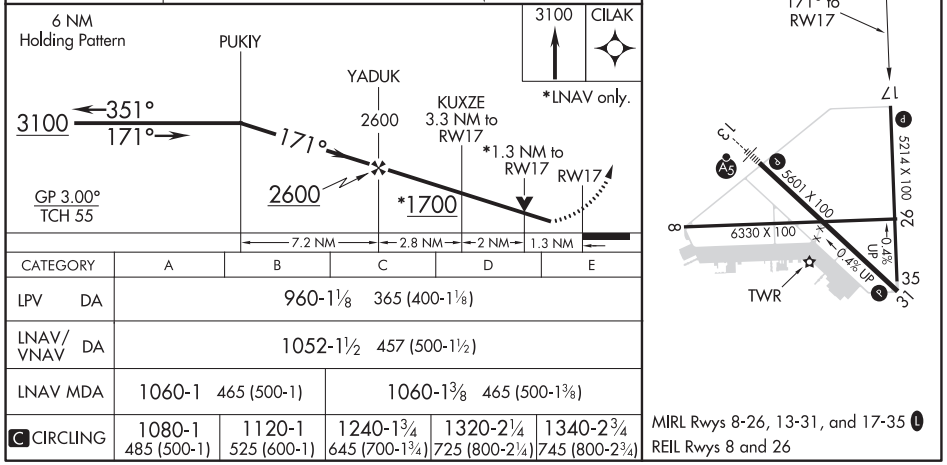
RNAV (GPS) RWY 17
SAN MARCOS RGNL (HYI)

T A Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and Circling Cat C/D visibility ¼ mile; increase LNAV/VNAV all Cats and LNAV Cat C/D/E visibility ⅛ mile. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3100 direct CILAK and hold.

ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)





CATEGORY	A	B	C	D	E
LPV DA	960-1⅛ 365 (400-1⅛)				
LNAV/VNAV DA	1052-1½ 457 (500-1½)				
LNAV MDA	1060-1 465 (500-1)		1060-1⅜ 465 (500-1⅜)		
C CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26

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RNAV (GPS) RWY 26

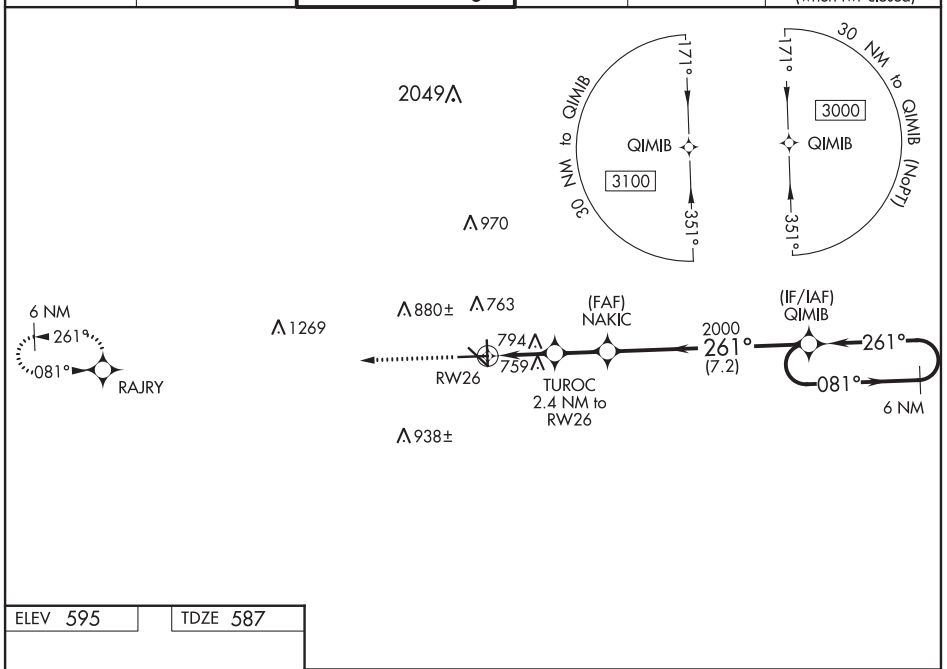
SAN MARCOS RGNL (HYI)

WAAS CH 78332 W26A	APP CRS 261°	Rwy ldg 6330 TDZE 587 Apt Elev 595

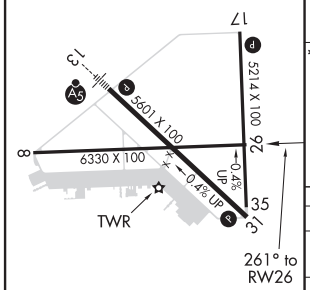
Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV and LNAV/VNAV all Cats, and LNAV Cat C/D/E visibility ⅛ mile and Circling Cat C/D visibility ¼ mile. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct RAJRY and hold.

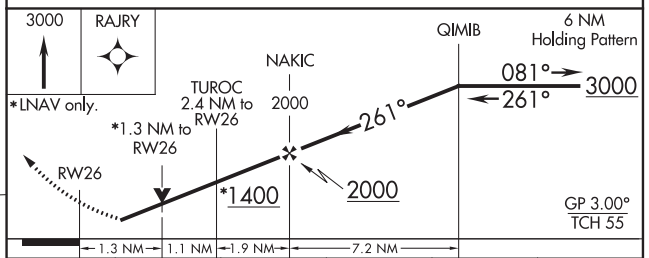
ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)



ELEV 595 | TDZE 587



MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26



CATEGORY	A	B	C	D	E
LPV DA	837-¾ 250 (300-¾)				
LNAV/VNAV DA	866-⅞ 279 (300-⅞)				
LNAV MDA	1060-1 473 (500-1)		1060-1⅜ 473 (500-1⅜)		
C CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

AUSTIN, TEXAS
Orig-B 23JUN16

29°54′N-97°52′W

SAN MARCOS RGNL (HYI)

RNAV (GPS) RWY 26

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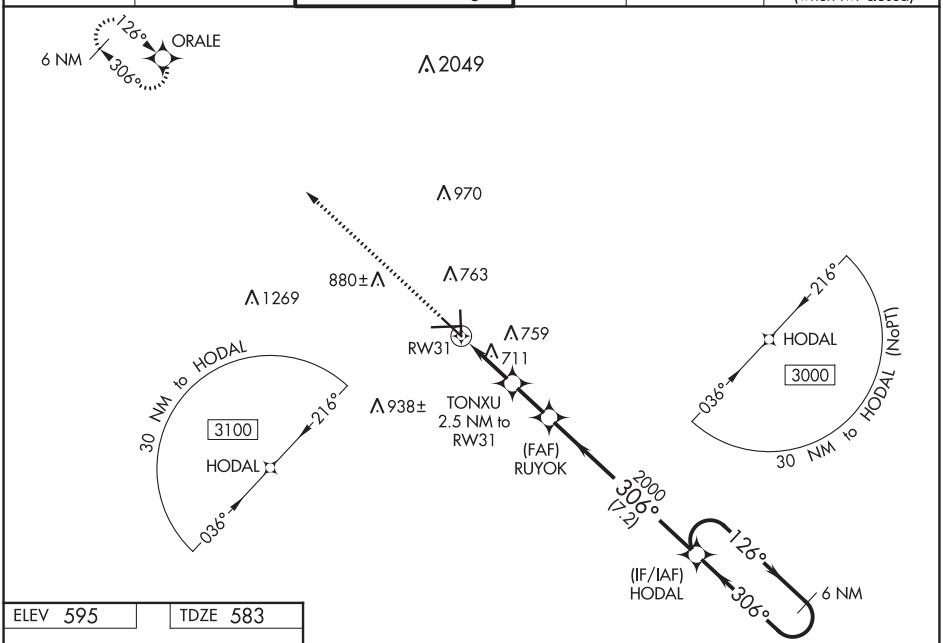
RNAV (GPS) RWY 31
SAN MARCOS RGNL (HYI)

WAAS CH 90432 W31A	APP CRS 306°	Rwy ldg 5601 TDZE 583 Apt Elev 595

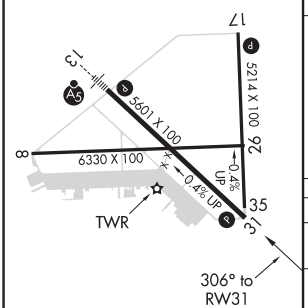
Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility ⅛ mile and LNAV Cat C/D/E and Circling Cat C/D visibility ¼. Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3500 direct ORALE and hold.

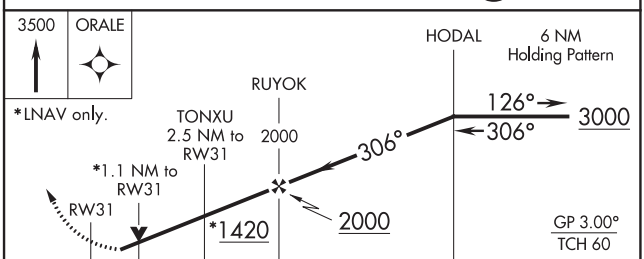
ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)



ELEV 595 TDZE 583



MIRL Rwys 8-26, 13-31 and 17-35 L
REIL Rwys 8 and 26



CATEGORY		A	B	C	D	E
LPV	DA	860-⅞ 277 (300-⅞)				
LNAV/VNAV	DA	906-1 323 (400-1)				
LNAV	MDA	980-1 397 (400-1)		980-1⅛ 397 (400-1⅛)		
C CIRCLING		1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

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RNAV (GPS) RWY 35

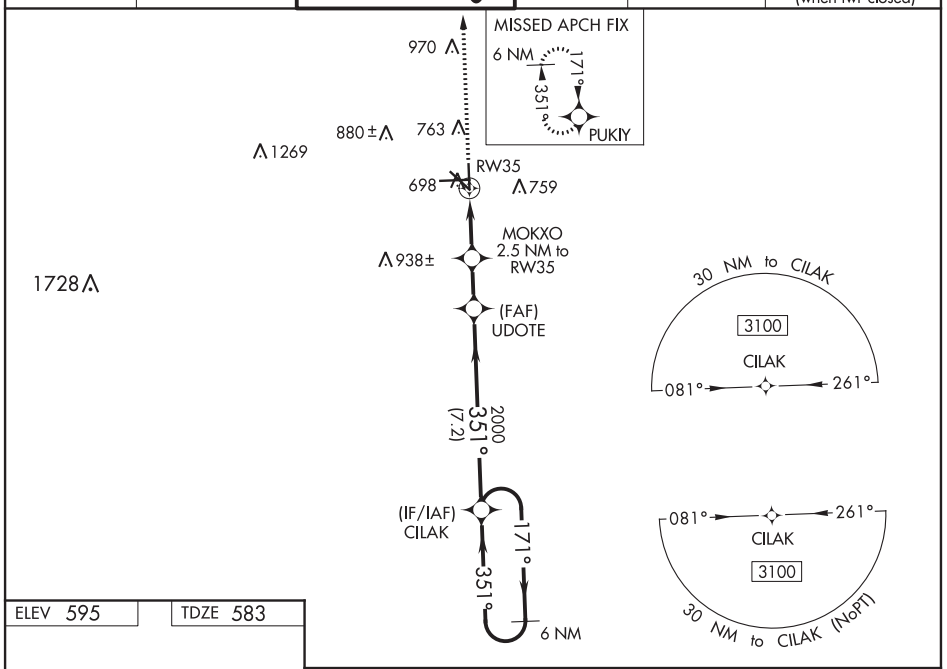
SAN MARCOS RGNL (HYI)

WAAS CH 70632 W35A	APP CRS 351°	Rwy ldg 5214 TDZE 583 Apt Elev 595

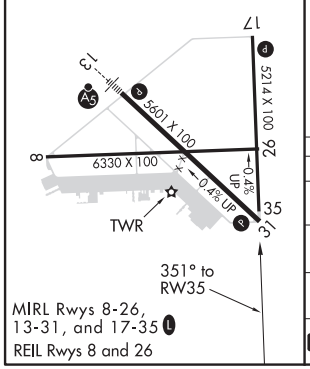
T A Baro-VNAV NA when using New Braunfels altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F) or above 54°C (130°F). When local altimeter setting not received, use New Braunfels altimeter setting and increase all DA 43 feet and all MDA 60 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility ⅛ mile; and increase LNAV Cat C/D/E visiblity and Circling Cat C/D visibility ¼ . Circling NA for Cat E SW of Rwy 13-31. DME/DME RNP-0.3 NA. VDP NA with New Braunfels altimeter setting.

MISSED APPROACH: Climb to 3100 direct PUKIY and hold.

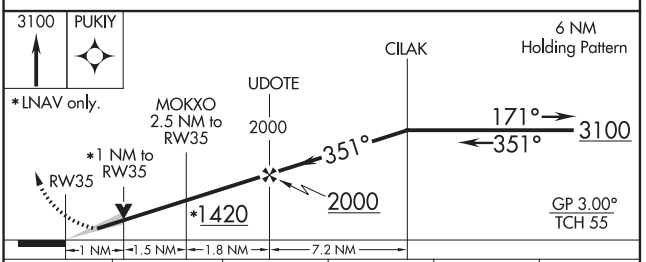
ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)



ELEV 595 | TDZE 583



MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26



CATEGORY	A	B	C	D	E
LPV DA	833-¾ 250 (300-¾)				
LNAV/VNAV DA	884-1 301 (300-1)				
LNAV MDA	960-1 377 (400-1)		960-1⅛ 377 (400-1⅛)		
C CIRCLING	1080-1 485 (500-1)	1120-1 525 (600-1)	1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)	1340-2¾ 745 (800-2¾)

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NDB RWY 13
SAN MARCOS RGNL (HYI)

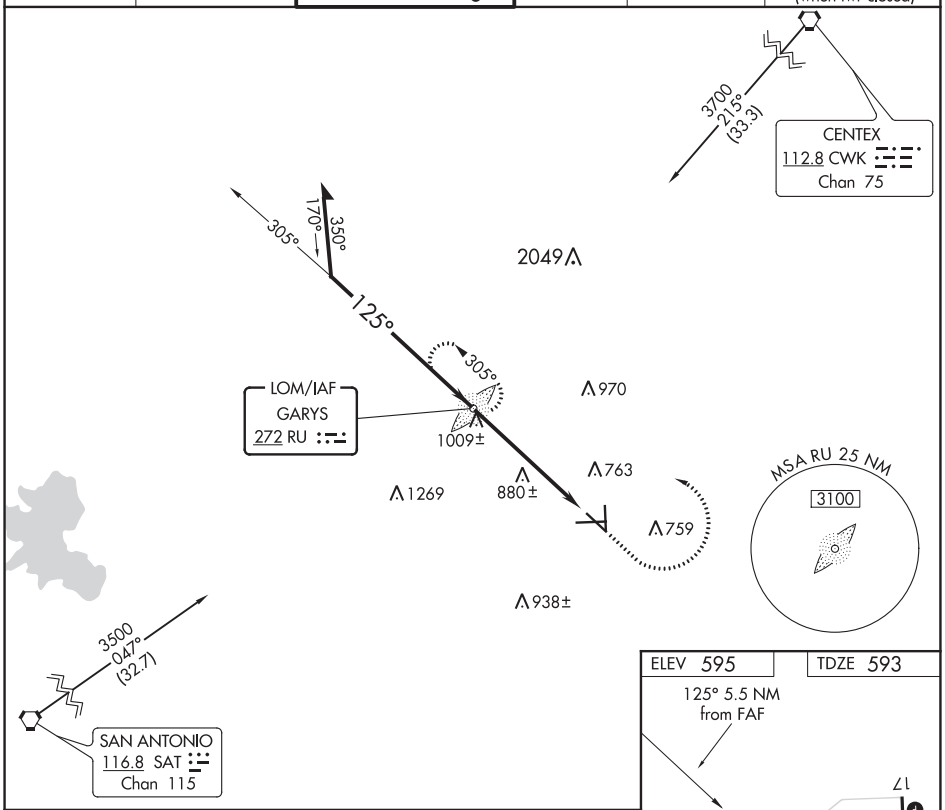
LOM RU	APP CRS	Rwy ldg / TDZE / Apt Elev
272	125°	5601 / 593 / 595

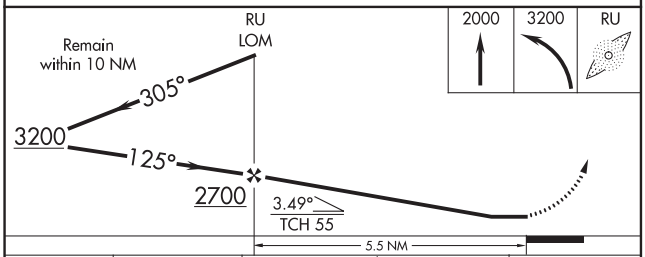
T
A NA

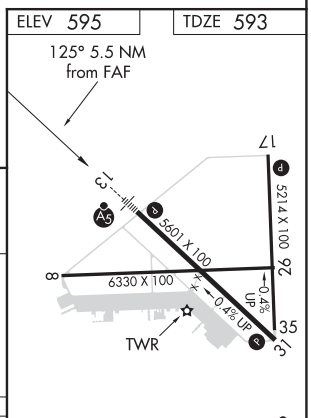
MALSR

MISSED APPROACH: Climb to 2000 then climbing left turn to 3200 direct RU LOM and hold.

ATIS ★	AUSTIN APP CON	SAN MARCOS TOWER ★	GND CON	CLNC DEL	CLNC DEL
120.825	119.0 370.85	126.825 (CTAF) L	120.125	120.125	121.35 (when twr closed)







MIRL Rwys 8-26, 13-31, and 17-35 L
REIL Rwys 8 and 26

CATEGORY	A	B	C	D
S-13	1240-¾ 647 (700-¾)		1240-1¼ 647 (700-1¼)	1240-1¾ 647 (700-1¾)
C CIRCLING	1240-1 645 (700-1)		1240-1¾ 645 (700-1¾)	1320-2¼ 725 (800-2¼)

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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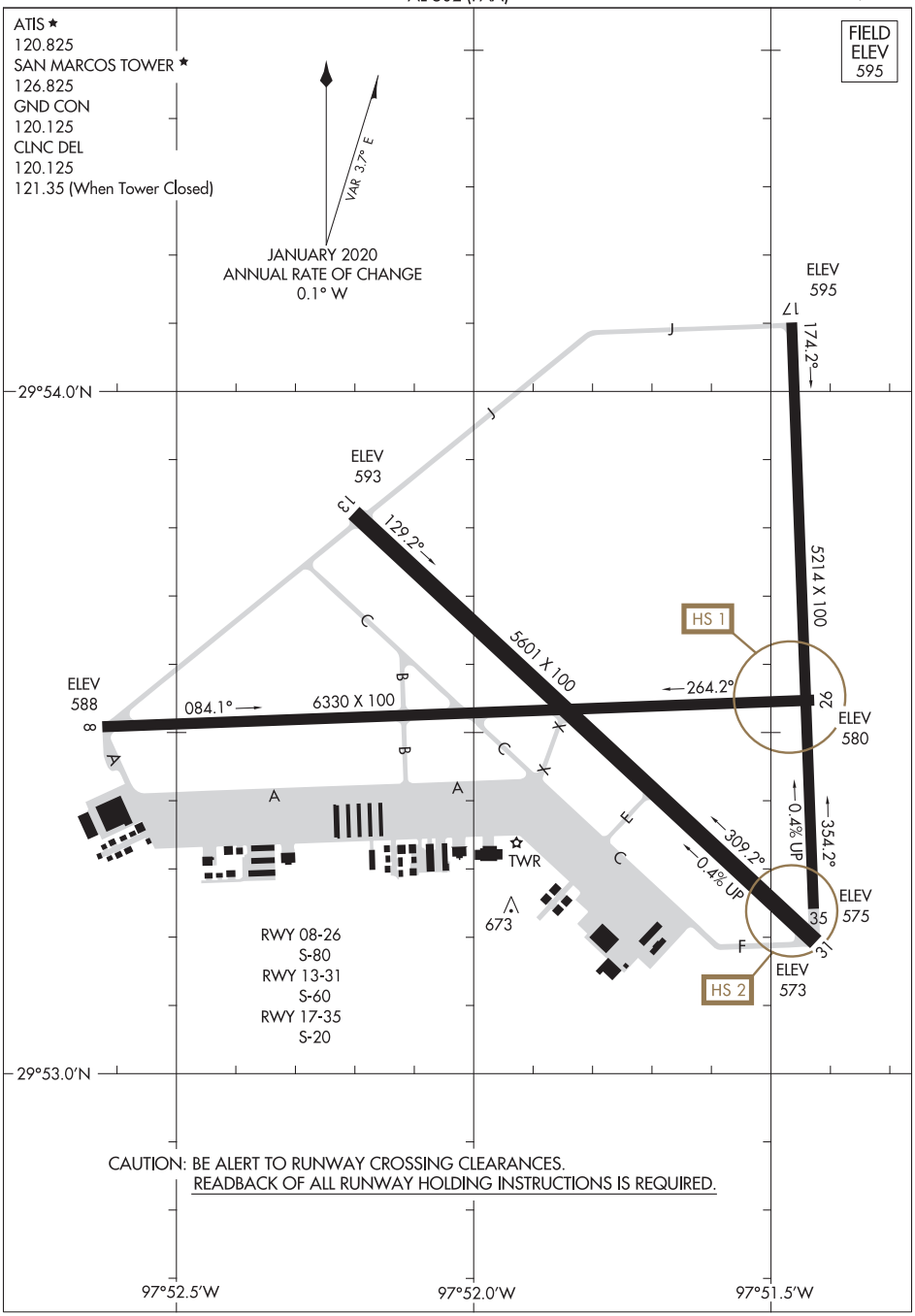
AIRPORT DIAGRAM

AL-502 (FAA)

SAN MARCOS RGNL (HYI)
AUSTIN, TEXAS



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

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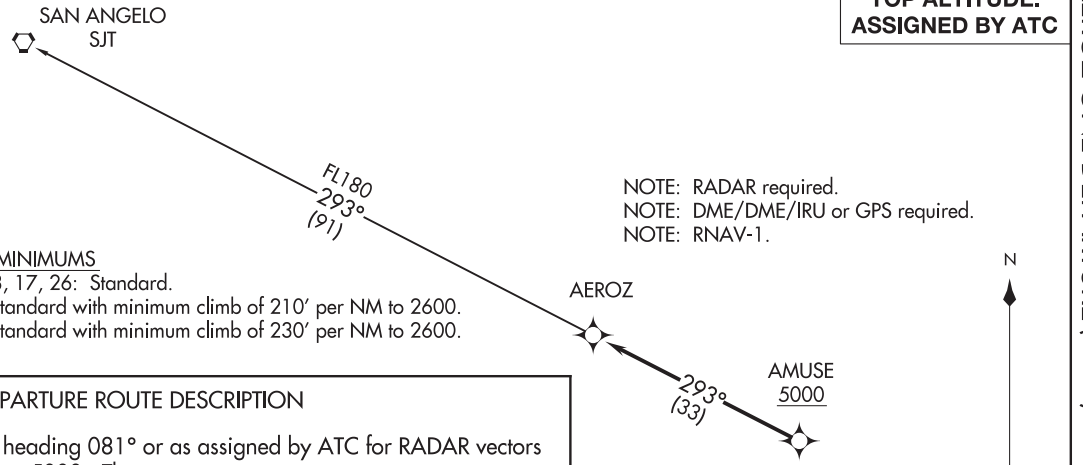
AIRPORT DIAGRAM
20086
AUSTIN, TEXAS
SAN MARCOS RGNL (HYI)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
120.825
CLNC DEL (When twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Standard with minimum climb of 210′ per NM to 2600.
Rwy 35: Standard with minimum climb of 230′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....

. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SAN ANGELO TRANSITION (AEROZ1.SJT):

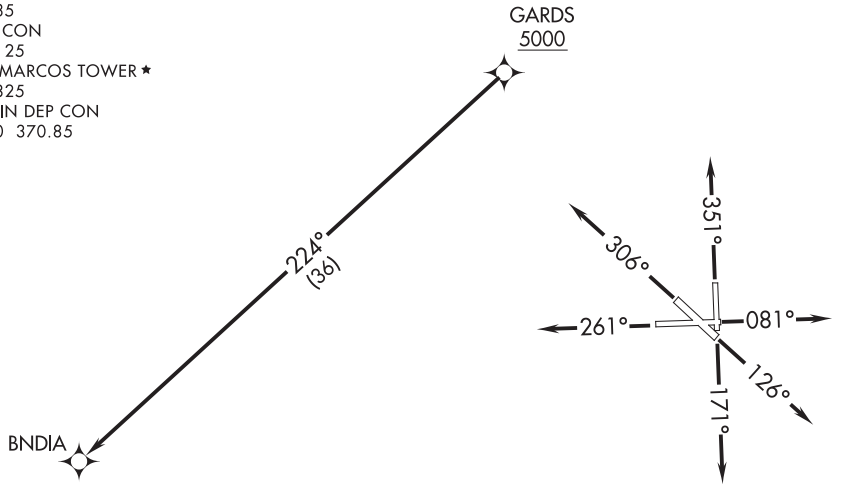
(BNDIA2.BNDIA) 20142 AL-502 (FAA)

BNDIA TWO DEPARTURE (RNAV)

SAN MARCOS RGNL (HYI)
AUSTIN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
120.825
CLNC DEL (When twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Standard with a minimum climb of 210′ per NM to 2600.
Rwy 35: Standard with a minimum climb of 230′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....

. . . . on track 224° to BNDIA. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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ELOEL TWO DEPARTURE (RNAV)

AUSTIN, TEXAS

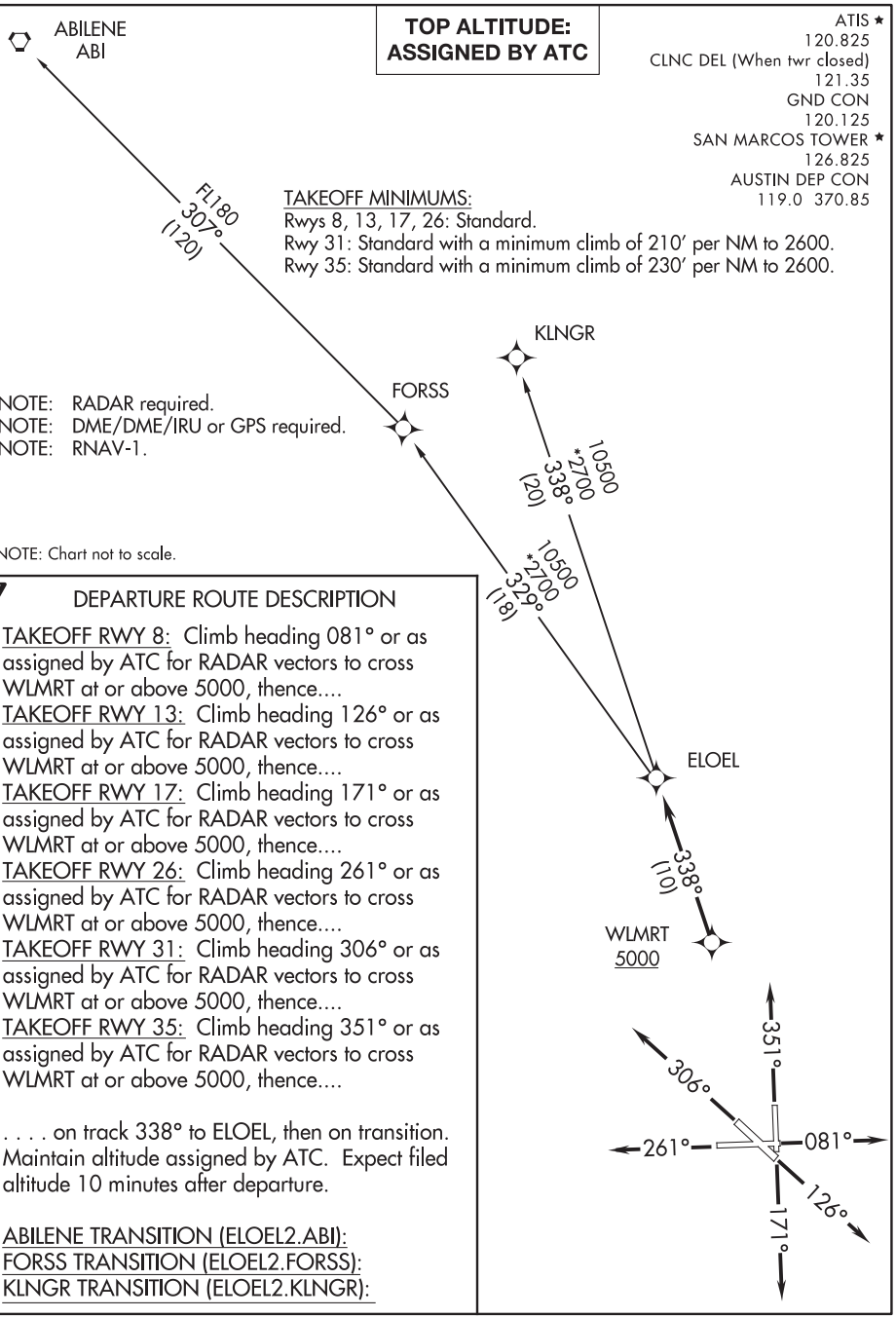
TOP ALTITUDE: ASSIGNED BY ATC

ATIS ★
120.825
CLNC DEL (When twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Standard with a minimum climb of 210′ per NM to 2600.
Rwy 35: Standard with a minimum climb of 230′ per NM to 2600.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....

. . . . on track 338° to ELOEL, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (ELOEL2.ABI):
FORSS TRANSITION (ELOEL2.FORSS):
KLNGR TRANSITION (ELOEL2.KLNGR):

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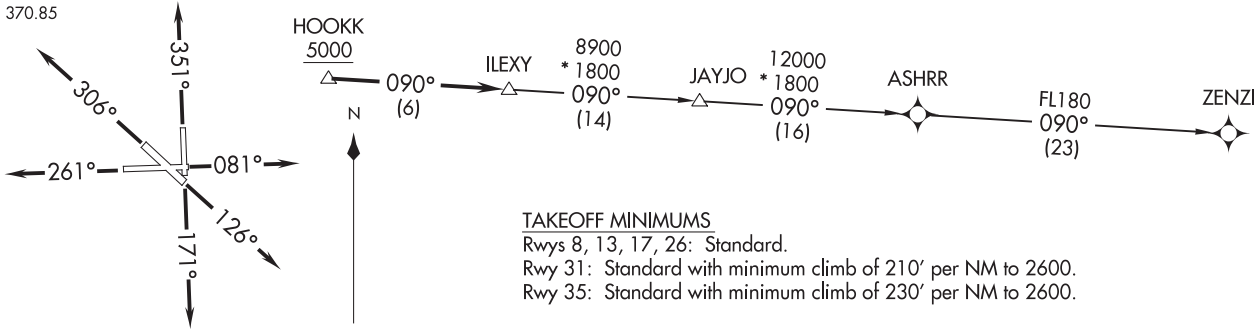
ATIS ★
120.825
CLNC DEL (When twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.



TAKEOFF MINIMUMS
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Standard with minimum climb of 210′ per NM to 2600.
Rwy 35: Standard with minimum climb of 230′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....

. . . . on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

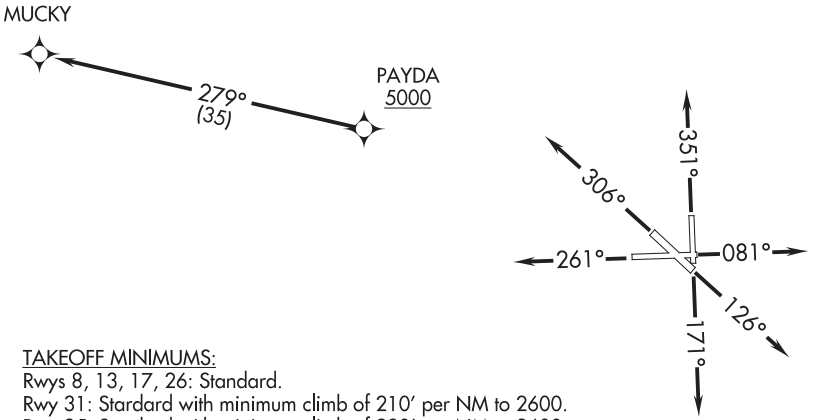
JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSITION (ILEXY2.ZENZI):

MUCKY TWO DEPARTURE(RNAV)

ATIS ★
120.825
CLNC DEL (when twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.



TAKEOFF MINIMUMS:
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Stardard with minimum climb of 210′ per NM to 2600.
Rwy 35: Stardard with minimum climb of 230′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....
TAKEOFF RUNWAY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....
TAKEOFF RUNWAY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....
TAKEOFF RUNWAY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....
TAKEOFF RUNWAY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....
TAKEOFF RUNWAY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to PAYDA at or above 5000, thence....

. . . .on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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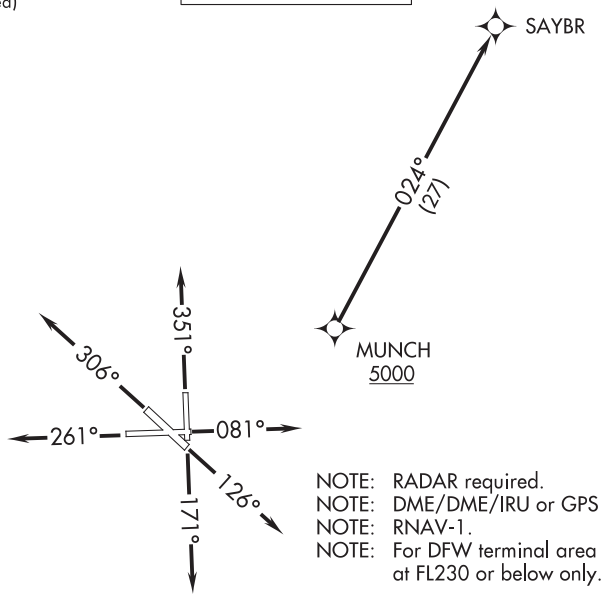
(SAYBR2.SAYBR) 20142 AL-502 (FAA)

SAN MARCOS RGNL (HYI)
AUSTIN, TEXAS

SAYBR TWO DEPARTURE (RNAV)

ATIS ★
120.825
CLNC DEL (When twr closed)
121.35
GND CON
120.125
SAN MARCOS TOWER ★
126.825
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.

TAKEOFF MINIMUMS:
Rwys 8, 13, 17, 26: Standard.
Rwy 31: Standard with a minimum climb of 210′ per NM to 2600.
Rwy 35: Standard with a minimum climb of 230′ per NM to 2600.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8: Climb heading 081° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....
TAKEOFF RWY 13: Climb heading 126° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....
TAKEOFF RWY 17: Climb heading 171° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....
TAKEOFF RWY 26: Climb heading 261° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....
TAKEOFF RWY 31: Climb heading 306° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....
TAKEOFF RWY 35: Climb heading 351° or as assigned by ATC for RADAR vectors to MUNCH at of above 5000, thence....

. . . .on track 024° to SAYBR. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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WAAS CH 53730 W17A	APP CRS 172°	Rwy ldg 3909 TDZE 1738 Apt Elev 1739

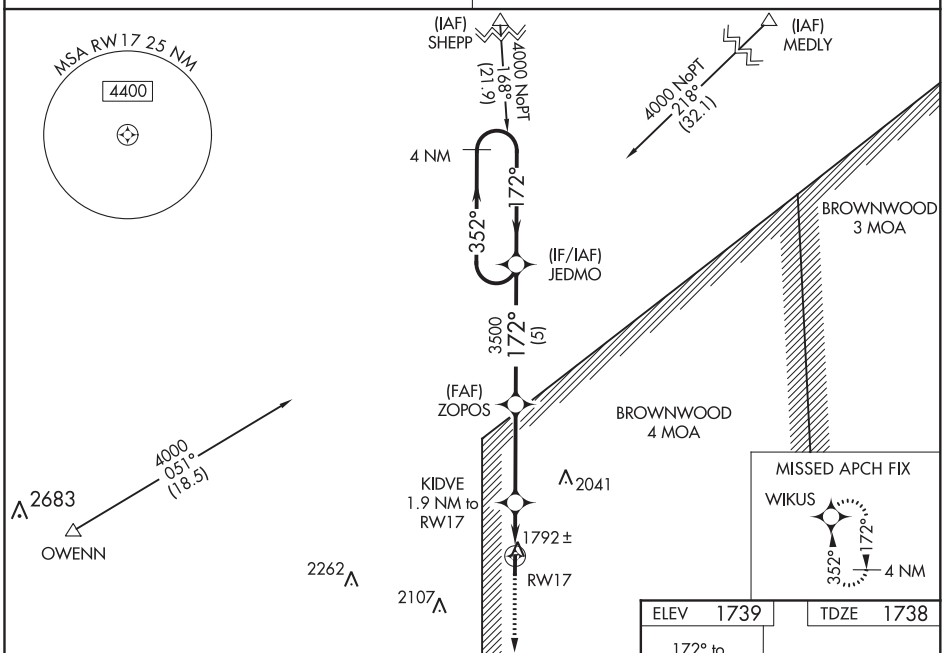
RNAV (GPS) RWY 17

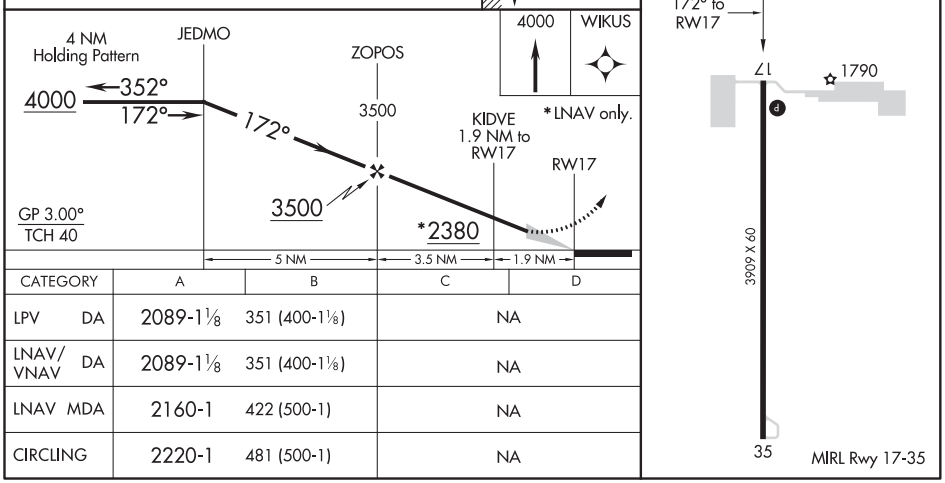
BRUCE FIELD (E30)

Baro-VNAV NA.
NA DME/DME RNP-0.3 NA.
Use San Angelo altimeter setting, when not received use Brady altimeter setting and increase all DA 15 feet and all MDA 20 feet, and increase LPV and LNAV/VNAV all Cats visibility ⅛ mile.

MISSED APPROACH: Climb to 4000 direct WIKUS and hold.

SAN ANGELO APP CON ★	CTAF
125.35 354.1	122.9 L





CATEGORY	A	B	C	D
LPV DA	2089-1⅛	351 (400-1⅛)	NA	
LNAV/VNAV DA	2089-1⅛	351 (400-1⅛)	NA	
LNAV MDA	2160-1	422 (500-1)	NA	
CIRCLING	2220-1	481 (500-1)	NA	

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BALLINGER, TEXAS AL-6881 (FAA) 17173

RNAV (GPS) RWY 35

BRUCE FIELD (E30)

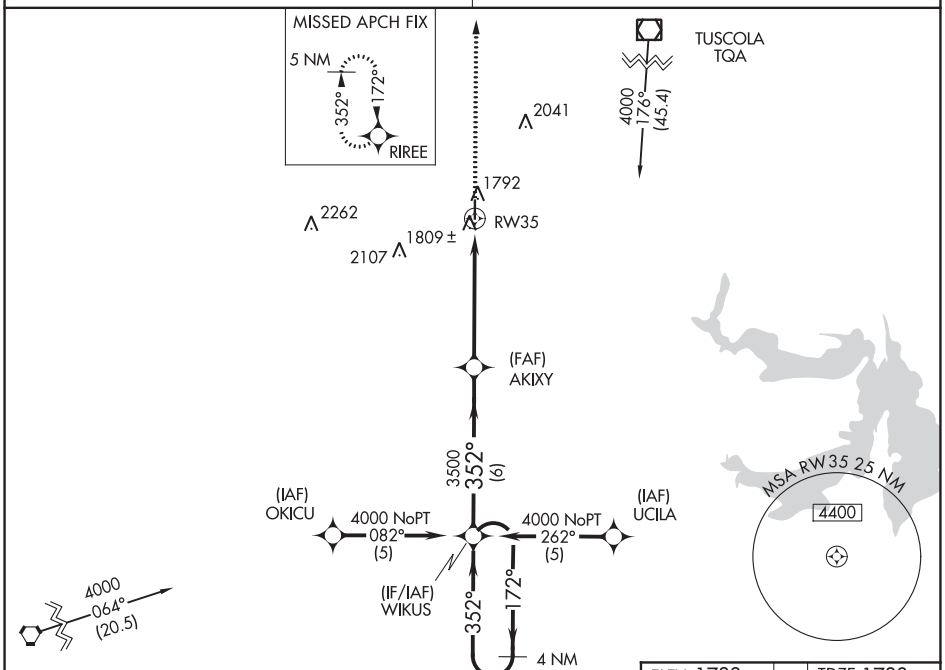
WAAS CH 86228 W35A	APP CRS 352°	Rwy ldg 3909 TDZE 1738 Apt Elev 1738

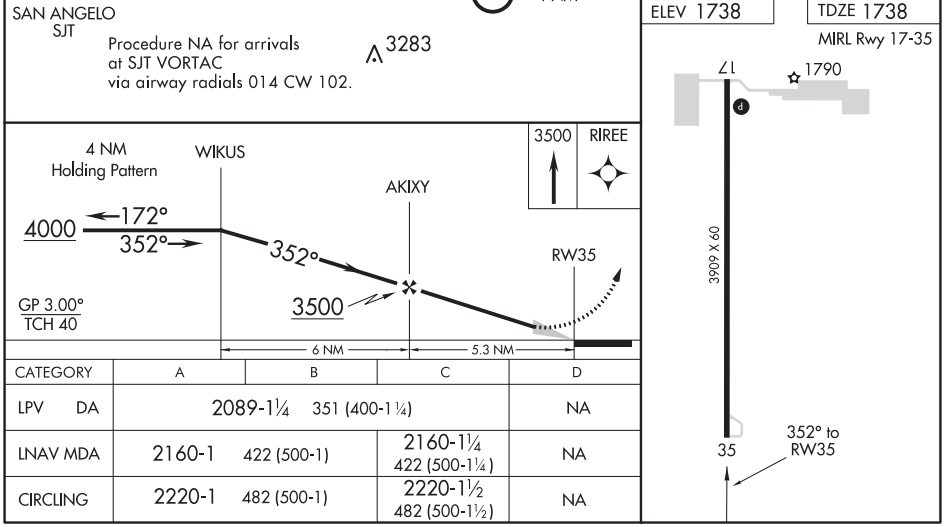
NA

DME/DME RNP-0.3 NA. Use San Angelo Rgnl/Mathis Field altimeter setting, if not received use Curtis Field altimeter setting and increase all DA/MDAs 20 feet.

MISSED APPROACH: Climb to 3500 direct RIREE and hold.

SAN ANGELO APP CON★	CTAF
125.35 354.1	122.9





CATEGORY	A	B	C	D
LPV DA	2089-1¼ 351 (400-1¼)			NA
LNAV MDA	2160-1 422 (500-1)		2160-1¼ 422 (500-1¼)	NA
CIRCLING	2220-1 482 (500-1)		2220-1½ 482 (500-1½)	NA

BALLINGER, TEXAS
Orig-A 20DEC07

31°40′N-99°59′W

BRUCE FIELD (E30)

RNAV (GPS) RWY 35

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RNAV (GPS) RWY 12

BEEVILLE MUNI (BEA)

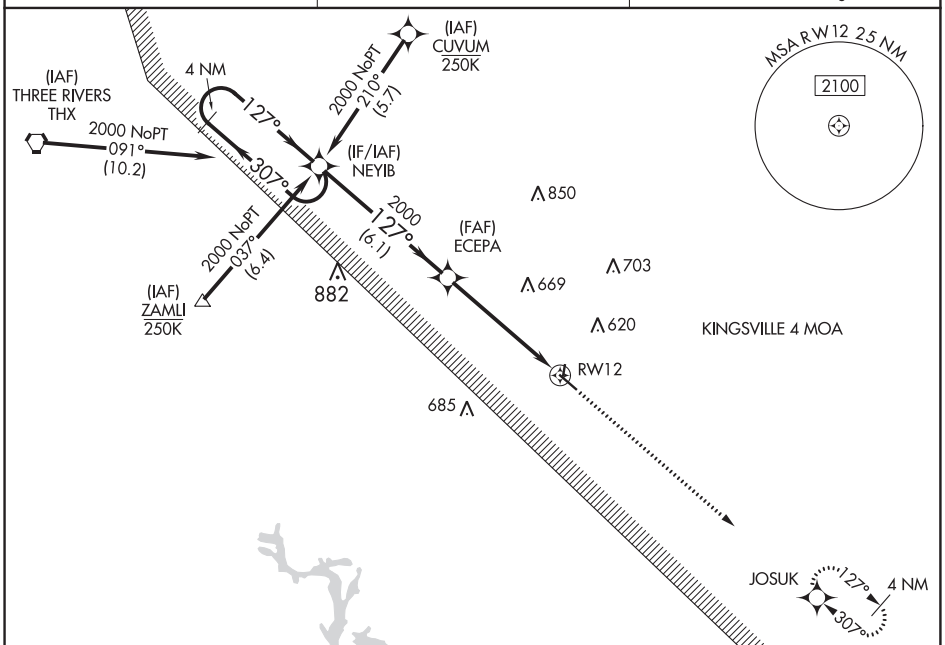
WAAS CH 49241 W12A	APP CRS 127°	Rwy ldg 4553 TDZE 268 Apt Elev 273

RNP APCH.

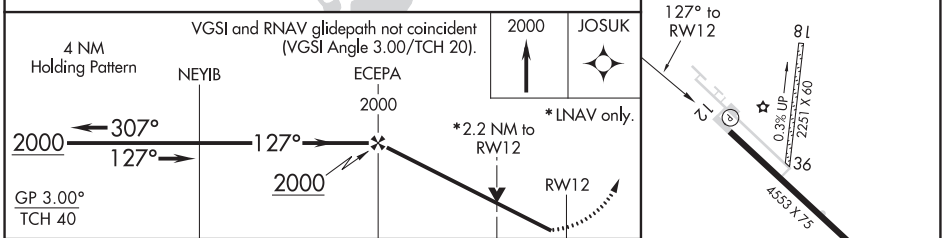
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling Rwy 18 and 36 NA at night. Rwy 12 helicopter visibility reduction below ¾ SM NA.

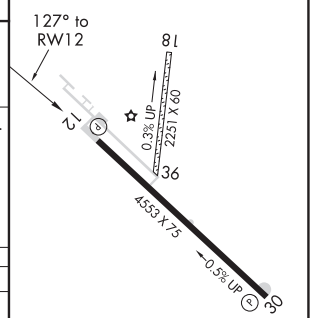
MISSED APPROACH: Climb to 2000 direct JOSUK and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.675	134.6 322.5	122.8 (CTAF) L



ELEV 273	TDZE 268





CATEGORY	A	B	C	D
LPV DA	518-1 250 (300-1)			NA
LNAV/VNAV DA	880-1¾ 612 (700-1¾)			NA
LNAV MDA	1000-1 732 (800-1)		1000-2 732 (800-2)	NA
C CIRCLING	1000-1 727 (800-1)		1000-2 727 (800-2)	NA

MIRL Rwy 12-30 L

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BEEVILLE, TEXAS | AL-5899 (FAA) | 19115

WAAS CH 53741 W30A	APP CRS 307°	Rwy ldg 4553 TDZE 262 Apt Elev 273

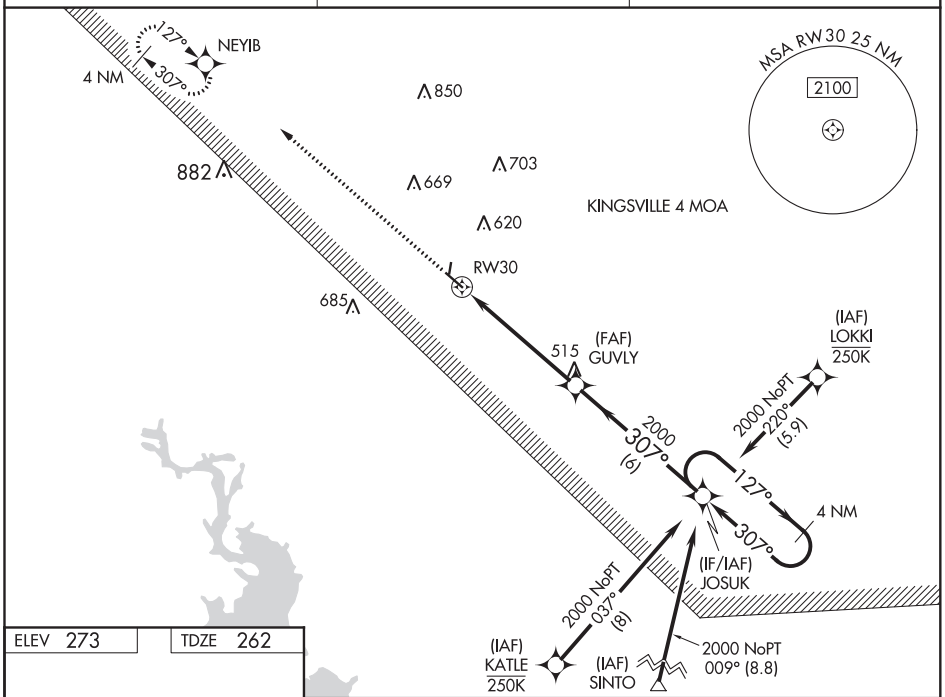
RNAV (GPS) RWY 30
BEEVILLE MUNI (BEA)

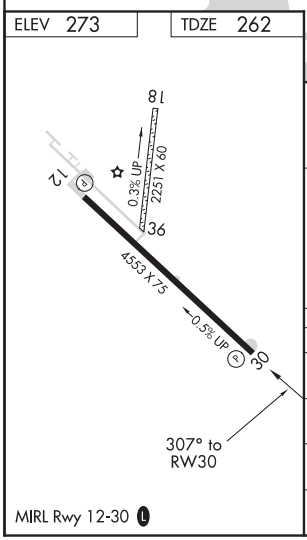
RNP APCH.

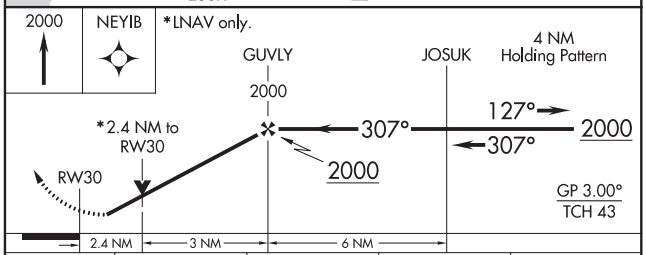
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling Rwy 18 and 36 NA at night. Rwy 30 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 2000 direct NEYIB and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.675	134.6 322.5	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	517-1 255 (300-1)			NA
LNAV/VNAV DA	540-1 278 (300-1)			NA
LNAV MDA	1060-1 798 (800-1)	1060-1¼ 798 (800-1¼)	1060-2½ 798 (800-2½)	NA
C CIRCLING	1060-1 787 (800-1)	1060-1¼ 787 (800-1¼)	1060-2½ 787 (800-2½)	NA

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VORTAC THX	APP CRS	Rwy ldg	4553
111.4	106°	TDZE	268
Chan 51		Apt Elev	273

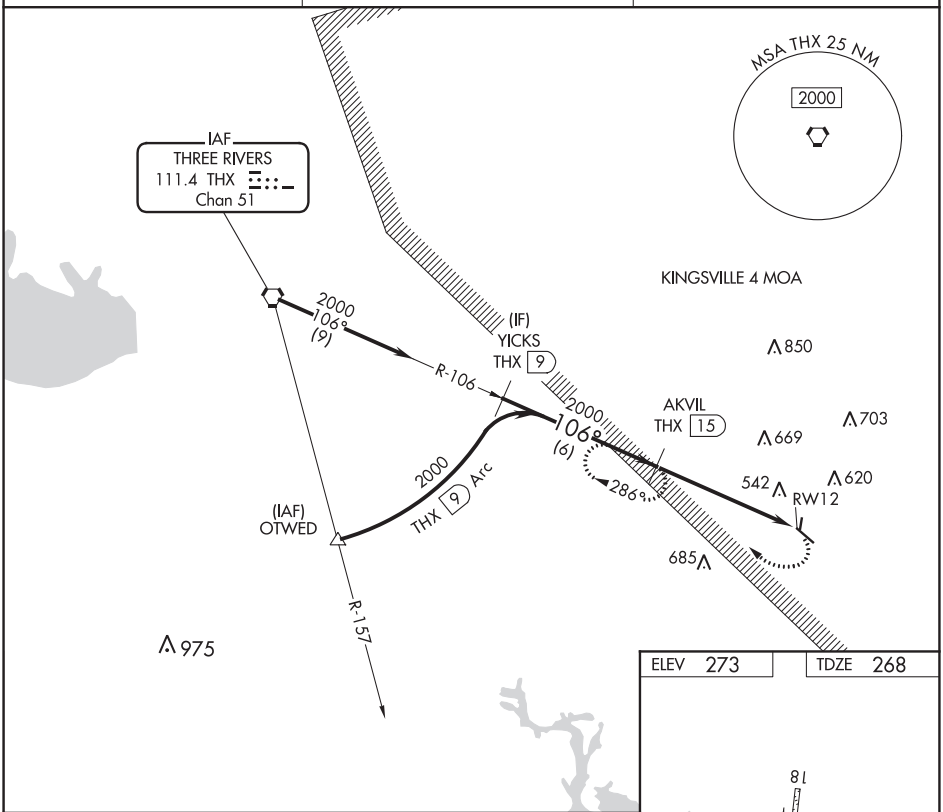
VOR/DME RWY 12
BEEVILLE MUNI (BEA)

Use Corpus Christi Intl altimeter setting.
Circling NA to Rwys 18 and 36.

NA

MISSED APPROACH: Climbing right turn to 2000 via THX VORTAC R-106 to AKVIL/THX VORTAC 15 DME and hold. Continue climb-in-hold to 2000.

AWOS-3	HOUSTON CENTER	UNICOM
118.675	134.6 322.5	122.8 (CTAF) L



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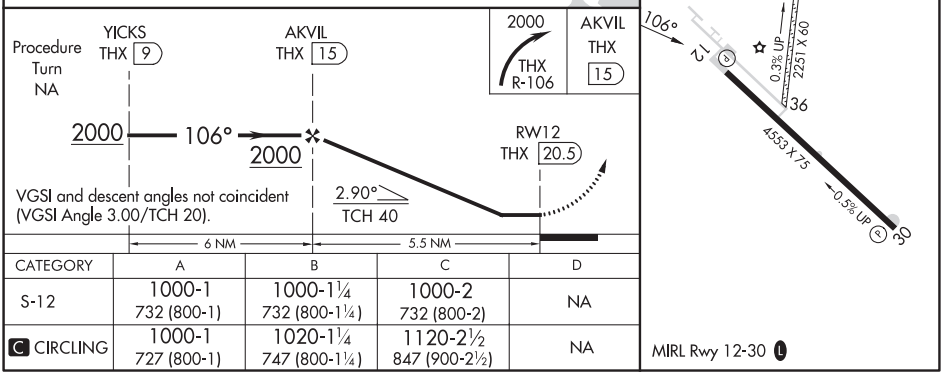
ELEV 273 | TDZE 268



CATEGORY	A	B	C	D
S-12	1000-1 732 (800-1)	1000-1¼ 732 (800-1¼)	1000-2 732 (800-2)	NA
C CIRCLING	1000-1 727 (800-1)	1020-1¼ 747 (800-1¼)	1120-2½ 847 (900-2½)	NA

MIRL Rwy 12-30 L

BEEVILLE, TEXAS

AL-11435 (FAA)

19283

RNAV (GPS) RWY 13
CHASE FIELD INDUSTRIAL (TX2)

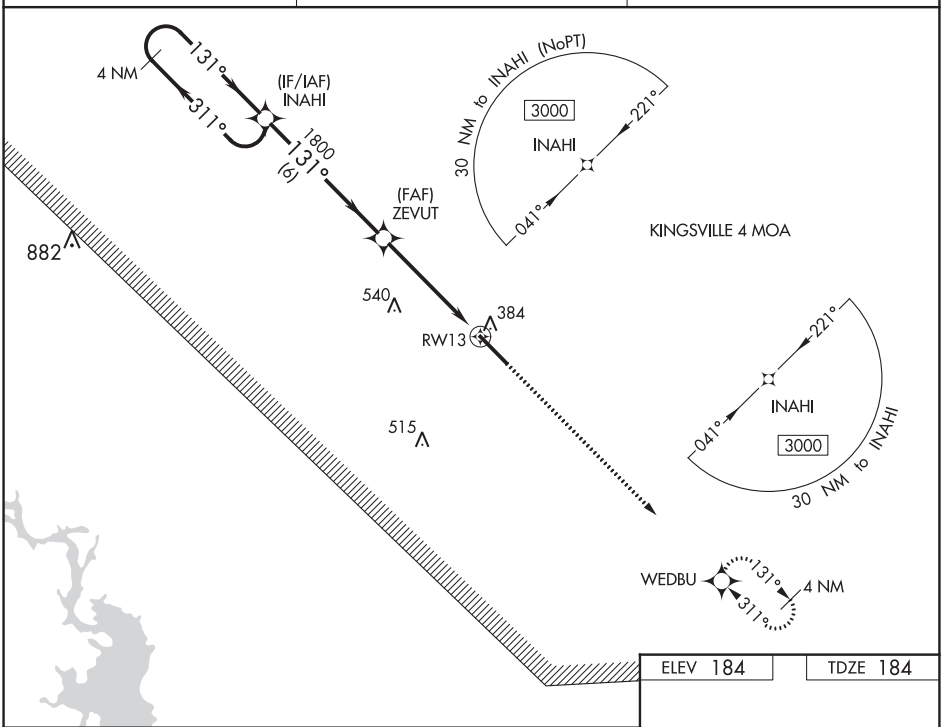
WAAS CH 70740 W13A	APP CRS 131°	Rwy ldg 8000 TDZE 184 Apt Elev 184

NA

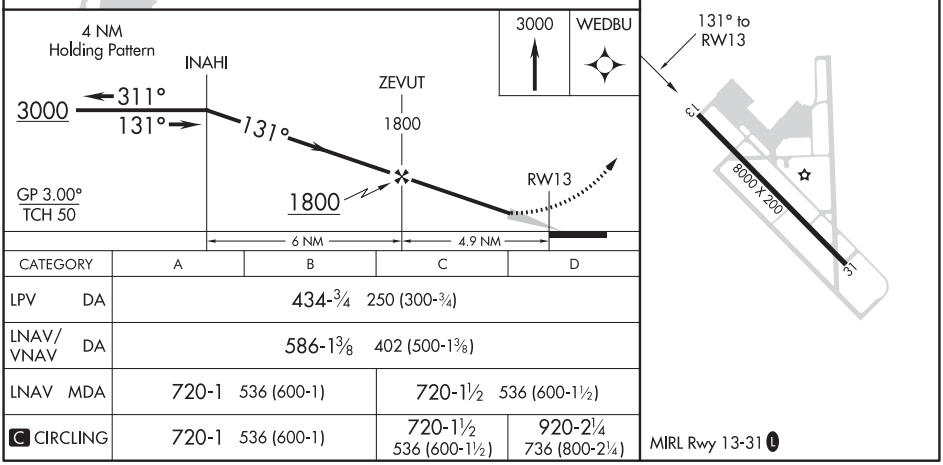
Baro-VNAV NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct WEDBU and hold.

BEA AWOS-3	HOUSTON CENTER	UNICOM
118.675	134.6 322.5	122.8 (CTAF) L



ELEV 184 | TDZE 184



CATEGORY	A	B	C	D
LPV DA	434-¾ 250 (300-¾)			
LNAV/VNAV DA	586-1⅜ 402 (500-1⅜)			
LNAV MDA	720-1 536 (600-1)		720-1½ 536 (600-1½)	
C CIRCLING	720-1 536 (600-1)		720-1½ 536 (600-1½)	920-2¼ 736 (800-2¼)

BEEVILLE, TEXAS
Orig 17AUG17

28°22′N-97°40′W

CHASE FIELD INDUSTRIAL (TX2)
RNAV (GPS) RWY 13

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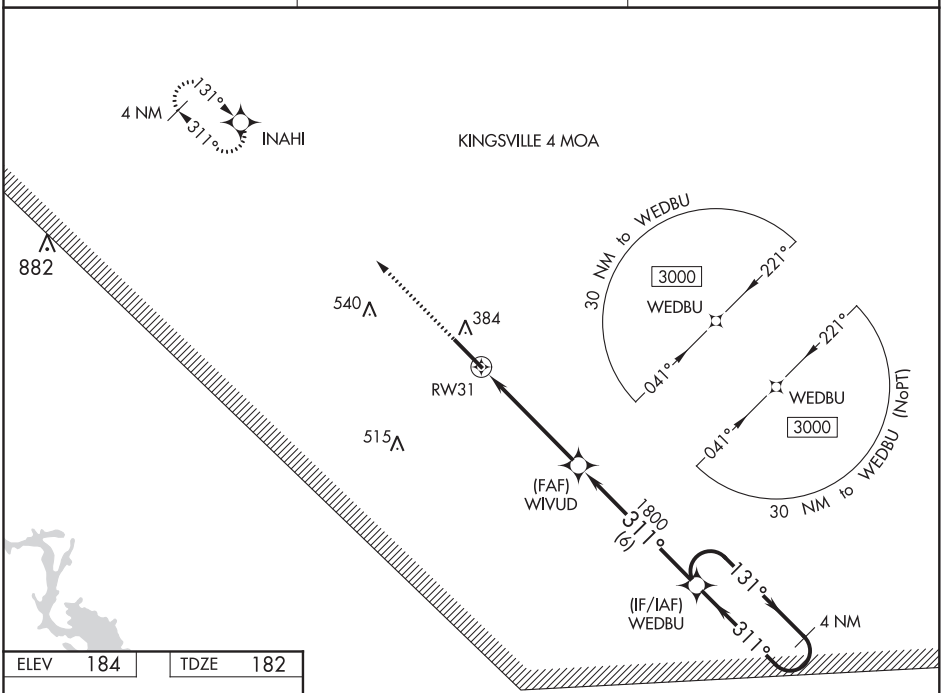
RNAV (GPS) RWY 31
CHASE FIELD INDUSTRIAL (TX2)

WAAS CH 77940 W31A	APP CRS 311°	Rwy ldg 8000 TDZE 182 Apt Elev 184

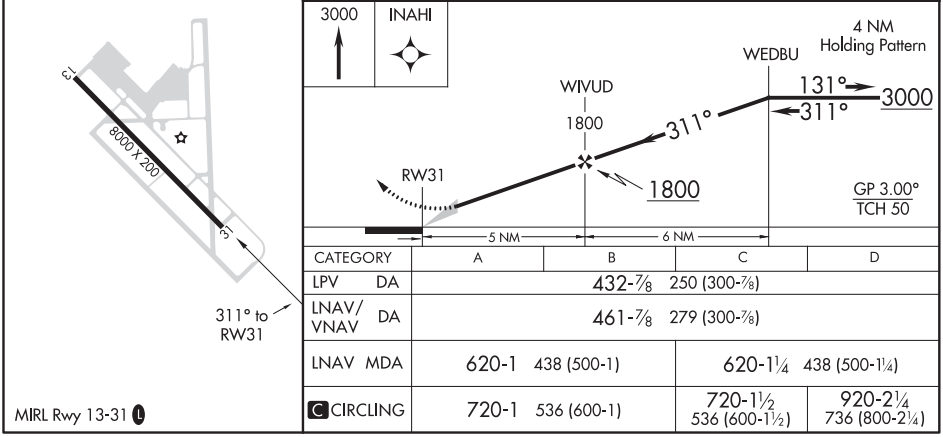
A NA — Baro-VNAV NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct INAHI and hold.

BEA AWOS-3	HOUSTON CENTER	UNICOM
118.675	134.6 322.5	122.8 (CTAF) L



ELEV 184	TDZE 182



CATEGORY	A	B	C	D
LPV DA	432-⅞ 250 (300-⅞)			
LNAV/VNAV DA	461-⅞ 279 (300-⅞)			
LNAV MDA	620-1 438 (500-1)		620-1¼ 438 (500-1¼)	
C CIRCLING	720-1 536 (600-1)		720-1½ 536 (600-1½)	920-2¼ 736 (800-2¼)

MIRL Rwy 13-31 L

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BIG LAKE, TEXAS | AL-6703 (FAA) | 20030

APP CRS	Rwy ldg	4032
161°	TDZE	2706
	Apt Elev	2706

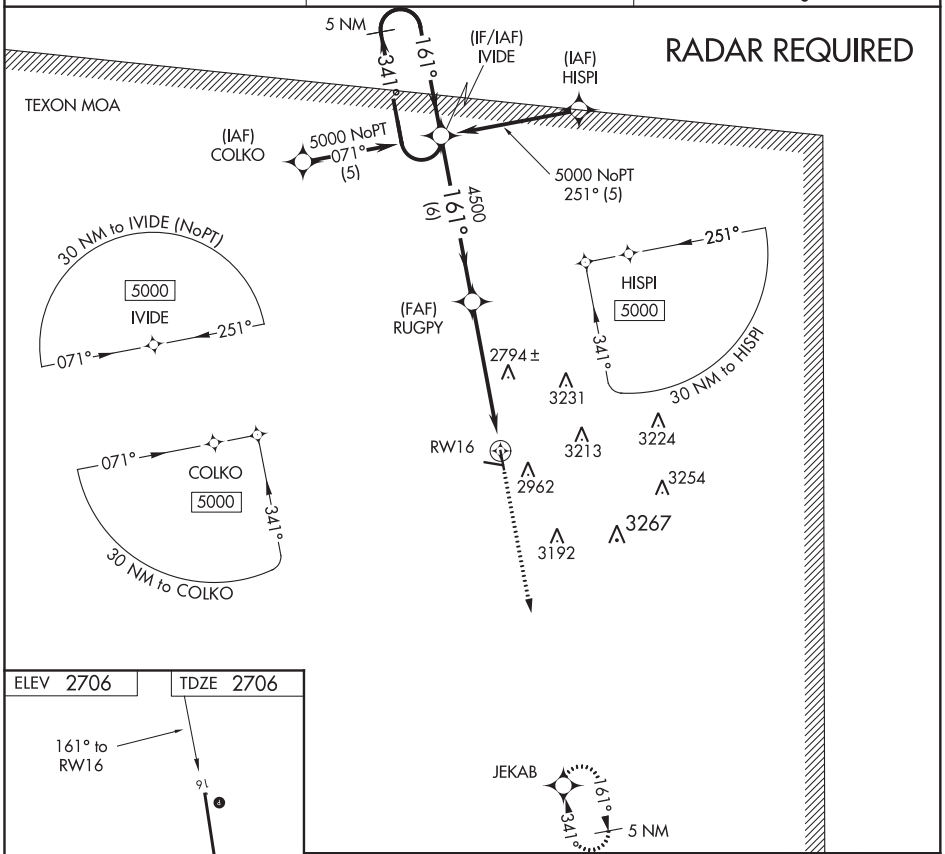
RNAV (GPS) RWY 16
REAGAN COUNTY (E41)

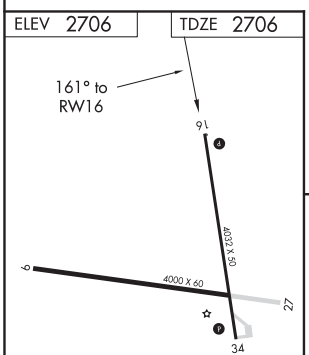
RNP APCH.

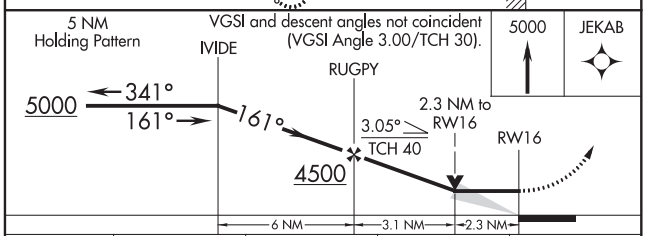
When local altimeter not received, use San Angelo altimeter setting. Circling NA east of Rwy 16-34.

MISSED APPROACH: Climb to 5000 direct JEKAB and hold.

AWOS-3PT	FORT WORTH CENTER	CTAF
118.4	126.15 322.55	122.9 L







CATEGORY	A	B	C	D
LNAV MDA	3460-1 754 (800-1)	3460-1¼ 754 (800-1¼)	3460-2¼ 754 (800-2¼)	NA
CIRCLING	3460-1 754 (800-1)	3460-1¼ 754 (800-1¼)	3460-2¼ 754 (800-2¼)	NA

MIRL Rwy 16-34 L

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RNAV (GPS) RWY 22

BIGGS AAF (KBIF)

AL-133 [USA]

APCH CRS	Rwy ldg	13,554
216°	TDZE	3947
	Arpt Elev	3947

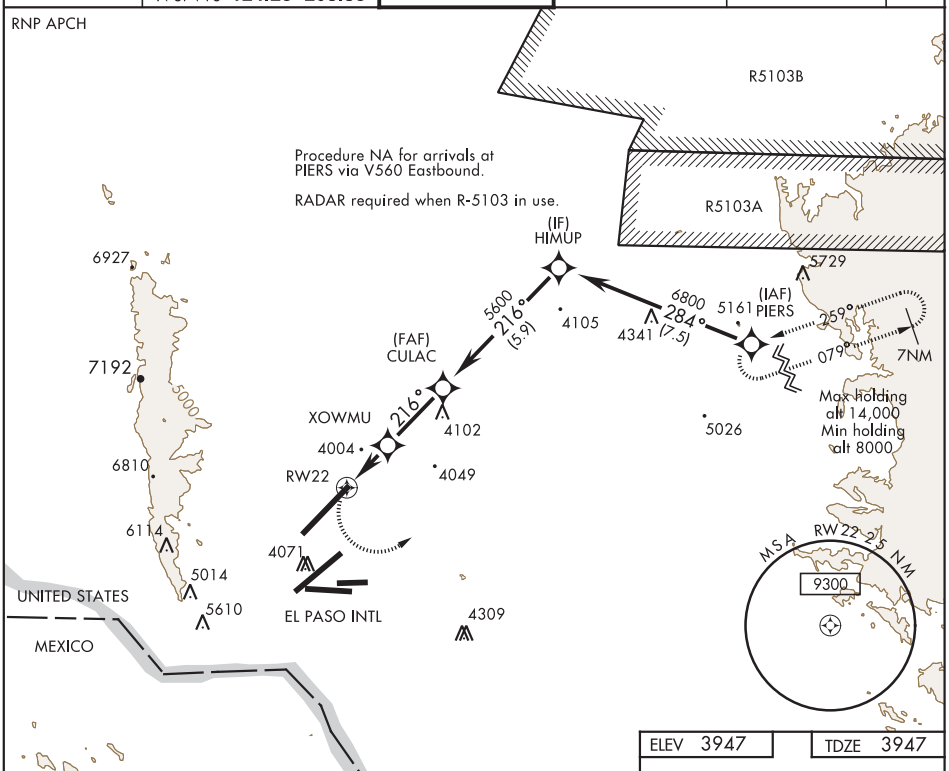
* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to ⅞ mile.
** Circling NA for CAT D West of Rwy 4-22.

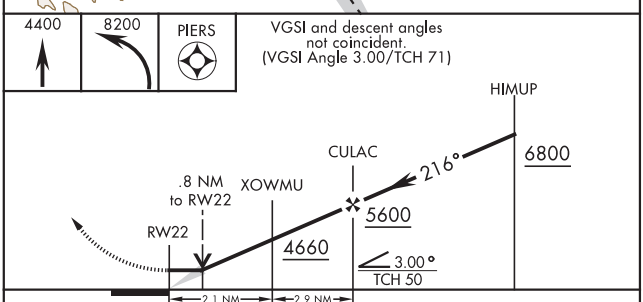
ALSF-1

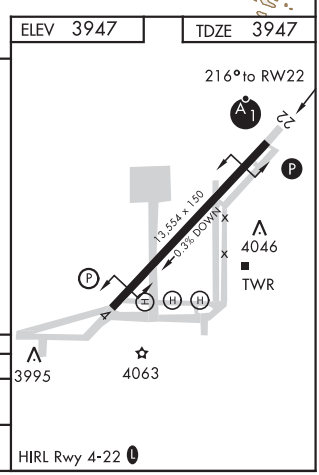
MISSED APPROACH: Climb to 4400 then climbing left turn to 8200 direct PIERS and hold, continue climb-in-hold to 8200.

ATIS	EL PASO APP CON	BIGGS TOWER ★	GND CON	EL PASO CLNC DEL	ASR
120.0 254.3	S of V16 119.15 353.5 N of V16 124.25 298.85	127.9 L 342.25	121.6 251.25	125.0 379.1	

RNP APCH







CATEGORY	A	B	C	D
LNAV MDA *	4260-¾ 313 (400-¾)			
C CIRCLING **	4400-1 453 (500-1)		4540-1½ 593 (600-1½)	4540-2 593 (600-2)

SC-3, 25 FEB 2021 to 22 APR 2021

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20198

FORT BLISS, TEXAS

VOR or TACAN RWY 22

AL-133 [USA]

BIGGS AAF (KBIF)

EWM VORTAC 112.4 Chan 71	APCH CRS 210°	Rwy ldg 13,554 TDZE 3947 Arpt Elev 3947

Use El Paso Intl altimeter setting.
* When ALS inop, increase CAT E vis to 3 miles.
** When ALS inop, increase CAT AB vis to 1 mile and CAT CDE to 1⅛ miles.

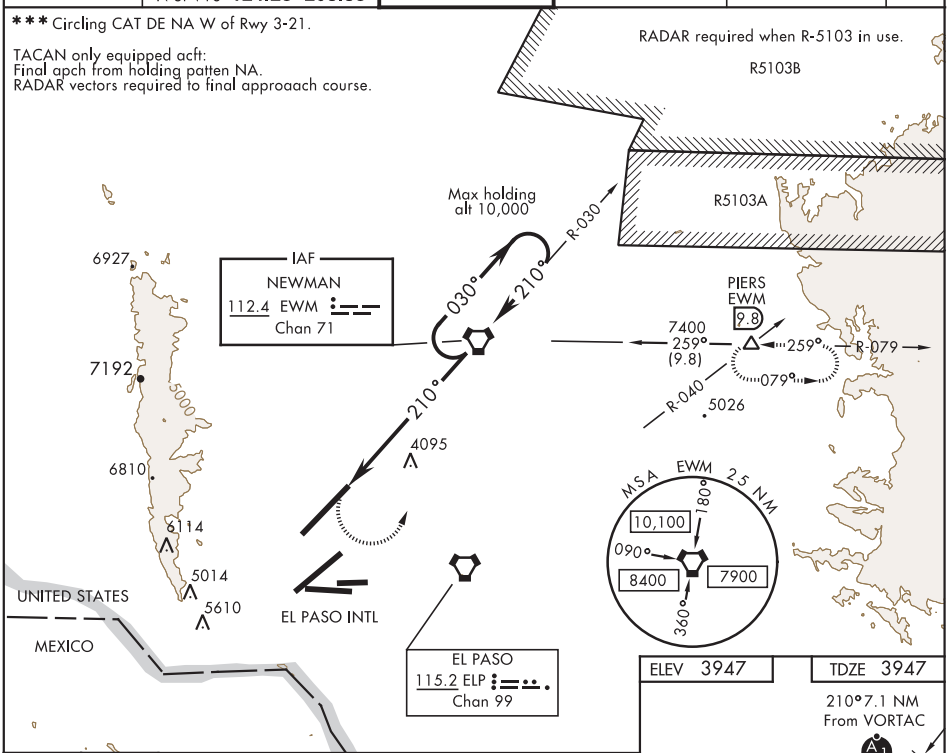
ALSF-1

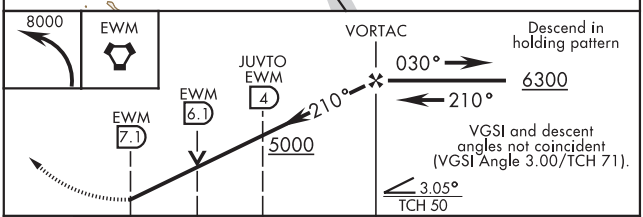
MISSED APPROACH: Climbing left turn to 8000 direct EWM VORTAC and hold, continue climb-in-hold to 8000. (TACAN only aircraft continue on EWM R-079 to PIERS INT/ EWM 9.8 DME and hold, continue climb-in-hold to 8200).

ATIS	EL PASO APP CON	BIGGS TOWER ★	GND CON	EL PASO CLNC DEL	ASR
120.0 254.3	S of V16 119.15 353.5 N of V16 124.25 298.85	127.9 L 342.25	121.6 251.25	125.0 379.1	

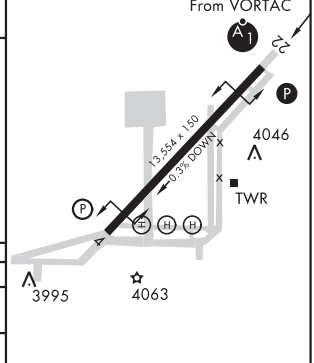
*** Circling CAT DE NA W of Rwy 3-21.

TACAN only equipped acft:
Final apch from holding patten NA.
RADAR vectors required to final approaach course.





ELEV 3947 | TDZE 3947



HIRL Rwy 4-22 L

CATEGORY	A	B	C	D	E
S-22*	5000-¾ 1053(1100-¾)	5000-1 1053(1100-1)	5000-2½ 1053 (1100-2½)		
C CIRCLING ***	5000-1¼ 1053(1100-1¼)	5000-1½ 1053(1100-1½)	5000-3 1053 (1100-3)		
JUVTO FIX MINIMUMS					
S-22**	4360-¾ 413 (500-¾)				
C CIRCLING ***	4400-1 453 (500-1)	4540-1½ 593(600-1½)	4540-2 593 (600-2)		

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

FORT BLISS, TEXAS

31° 51′N-106° 23′W

BIGGS AAF (KBIF)

Amdt 8A 16JUL20

VOR or TACAN RWY 22

SC-3, 25 FEB 2021 to 22 APR 2021

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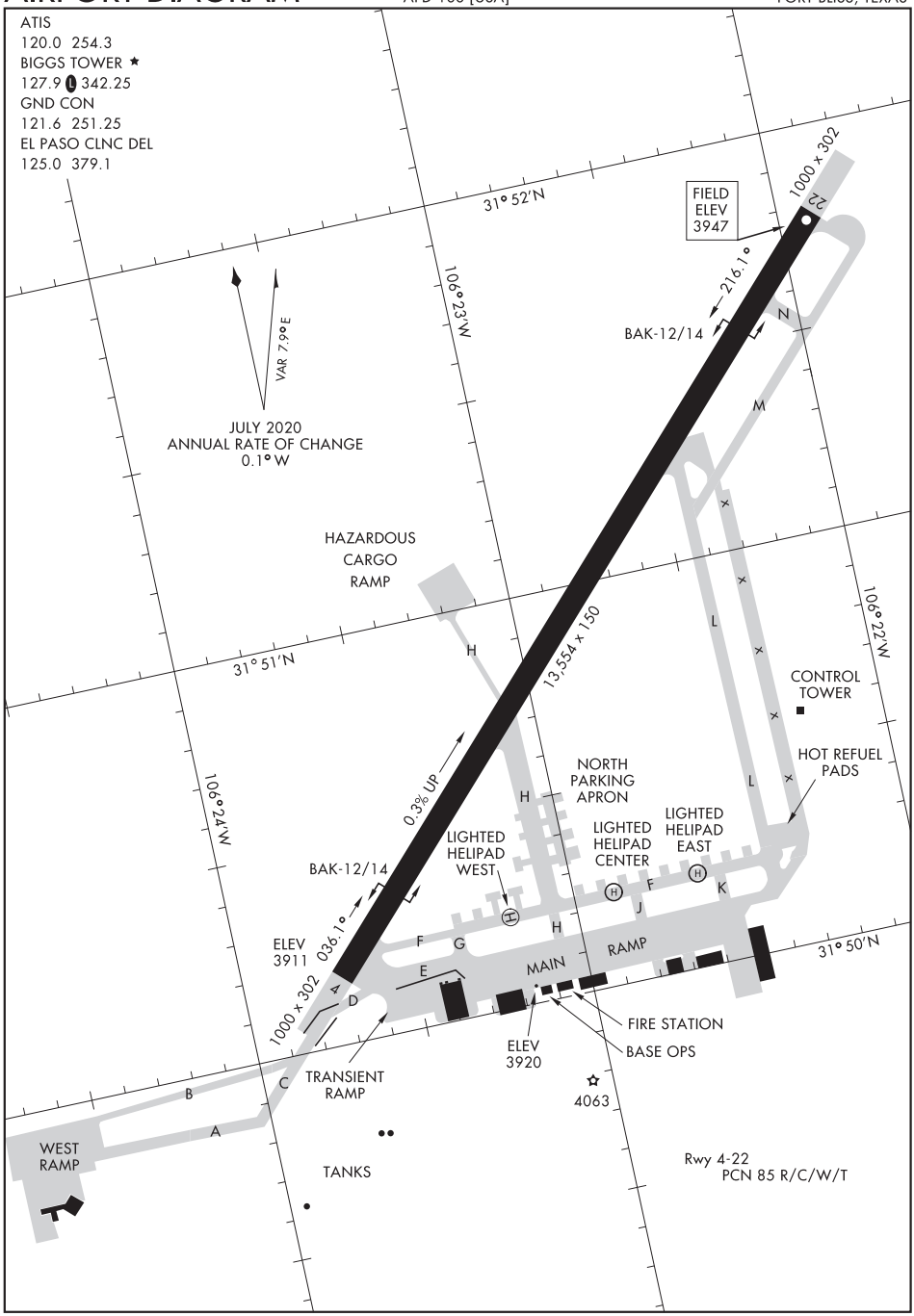


SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

BRADY, TEXAS | AL-6890 (FAA) | 19311

WAAS CH 53608 W17A	APP CRS 173°	Rwy ldg 4605 TDZE 1827 Apt Elev 1827

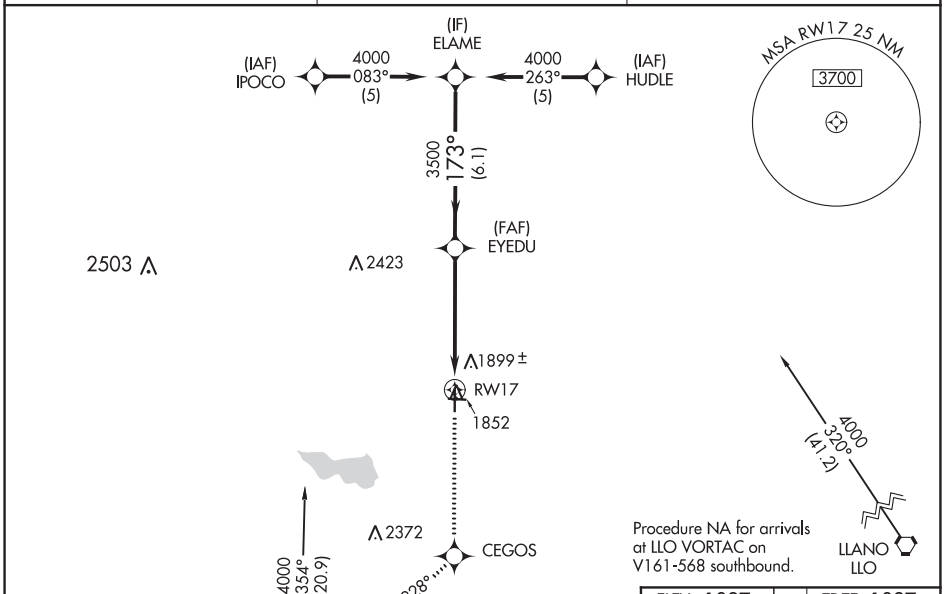
RNAV (GPS) RWY 17
CURTIS FIELD (BBD)

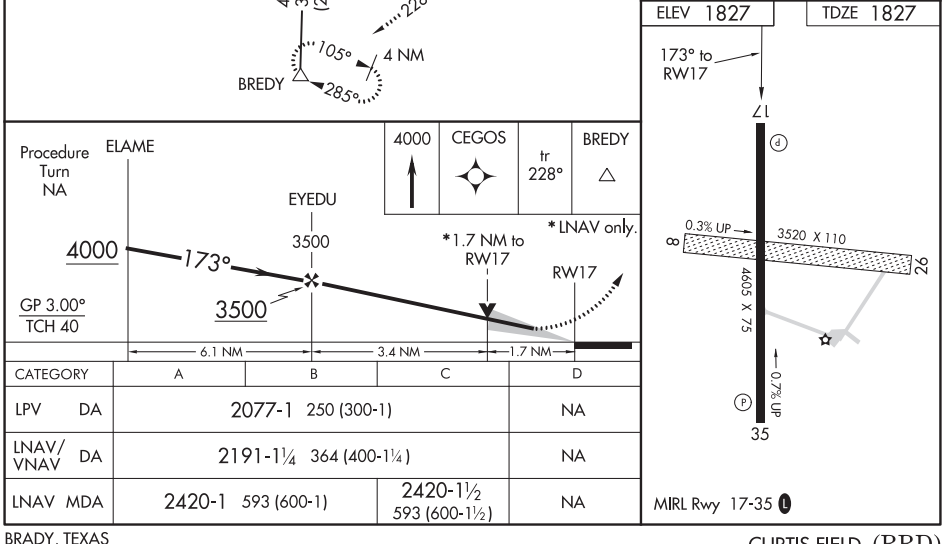
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). When local altimeter setting not received, use Junction altimeter setting and increase all DA/MDA 120 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, and LNAV Cat C visibility ½ mile. VDP and Baro-VNAV NA when using Junction altimeter setting.

MISSED APPROACH: Climb to 4000 direct CEGOS and on track 228° to BREDY and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.375	132.35 317.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2077-1 250 (300-1)			NA
LNAV/VNAV DA	2191-1¼ 364 (400-1¼)			NA
LNAV MDA	2420-1 593 (600-1)		2420-1½ 593 (600-1½)	NA

BRADY, TEXAS
Amdt 1C 07NOV19

31°11′N - 99°19′W

CURTIS FIELD (BBD)
RNAV (GPS) RWY 17

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 49108 W35A	APP CRS 353°	Rwy ldg 4605 TDZE 1823 Apt Elev 1827

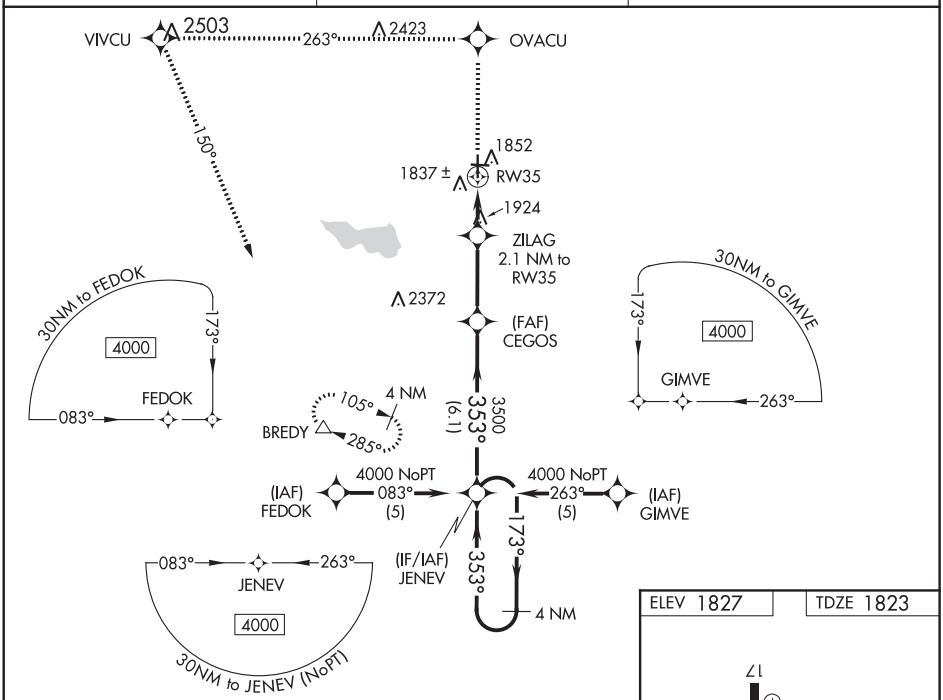
RNAV (GPS) RWY 35
CURTIS FIELD (BBD)

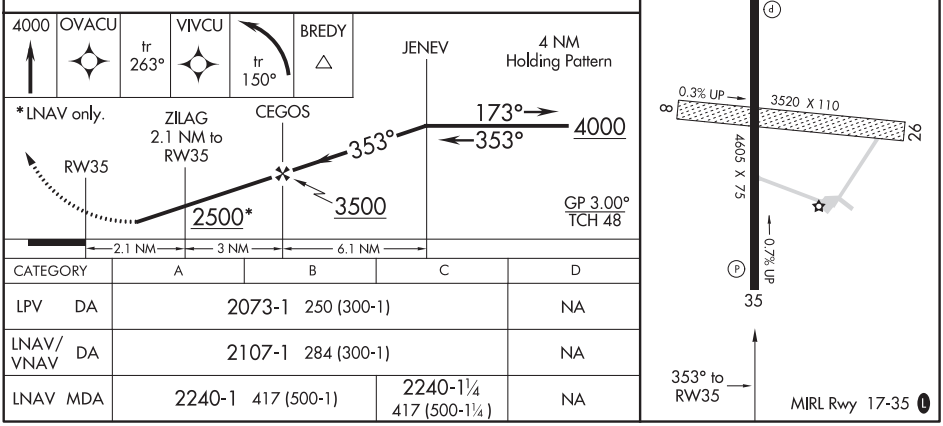
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F). When local altimeter setting not received, use Junction altimeter setting and increase all DA/MDA 120 feet, increase LPV, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Junction altimeter setting. Rwy 35 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 4000 direct OVACU and via 263° track to VIVCU and left turn via 150° track to BREDY and hold.

AWOS-3	HOUSTON CENTER	UNICOM
118.375	132.35 317.5	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	2073-1 250 (300-1)			NA
LNAV/VNAV DA	2107-1 284 (300-1)			NA
LNAV MDA	2240-1 417 (500-1)		2240-1¼ 417 (500-1¼)	NA

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BROWNSVILLE, TEXAS

AL-61 (FAA)

20142

ILS or LOC RWY 13

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

LOC/DME I-BRO	APP CRS	Rwy ldg 7399
110.3	132°	TDZE 19
Chan 40		Apt Elev 22

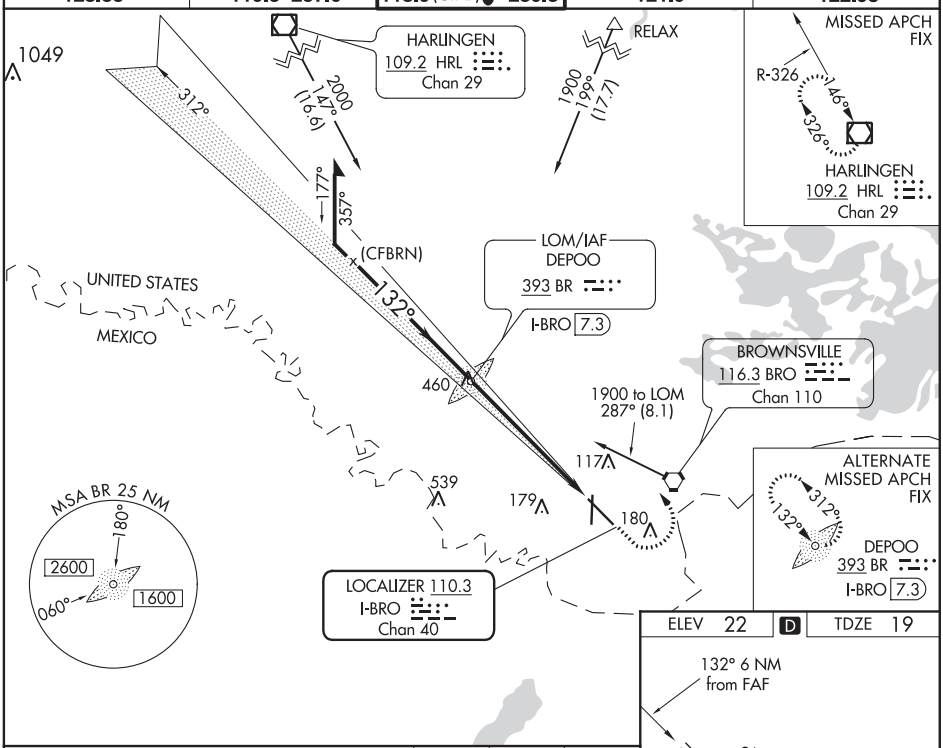
ADF or RADAR required.

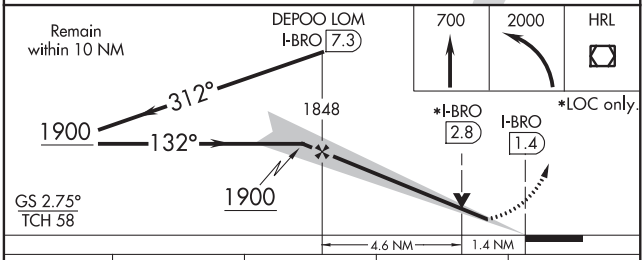
VDP NA when using Port Isabel altimeter setting. For inop ALS increase S-LOC 13 Cats C and D visibility to 1⅜ miles. When local altimeter setting not received, use Port Isabel altimeter setting and increase DA to 307 feet and all MDA 40 feet. S-LOC 13 Cat C and D visibility to RVR 5500, Circling Cat D visibility to 2¼ miles. For inop ALS when using Port Isabel altimeter setting increase S-LOC 13 Cats C/D visibility to 1⅜ miles.

MALSR

MISSED APPROACH: Climb to 700 then climbing left turn to 2000 direct HRL VOR/DME and hold.

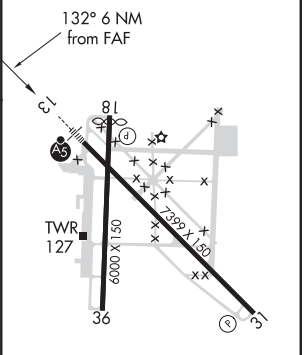
ATIS	VALLEY APP CON	BROWNSVILLE TOWER ★	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95





CATEGORY	A	B	C	D
S-ILS 13	269/24		250 (300-½)	
S-LOC 13	480/24 461 (500-½)		480/50 461 (500-1)	
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

ELEV 22 D TDZE 19



MIRL Rwy 18-36
HIRL Rwy 13-31

FAF to MAP 6 NM					
Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

SC-3, 25 FEB 2021 to 22 APR 2021

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WAAS CH 63231 W13A	APP CRS 132°	Rwy ldg 7399 TDZE 19 Apt Elev 22

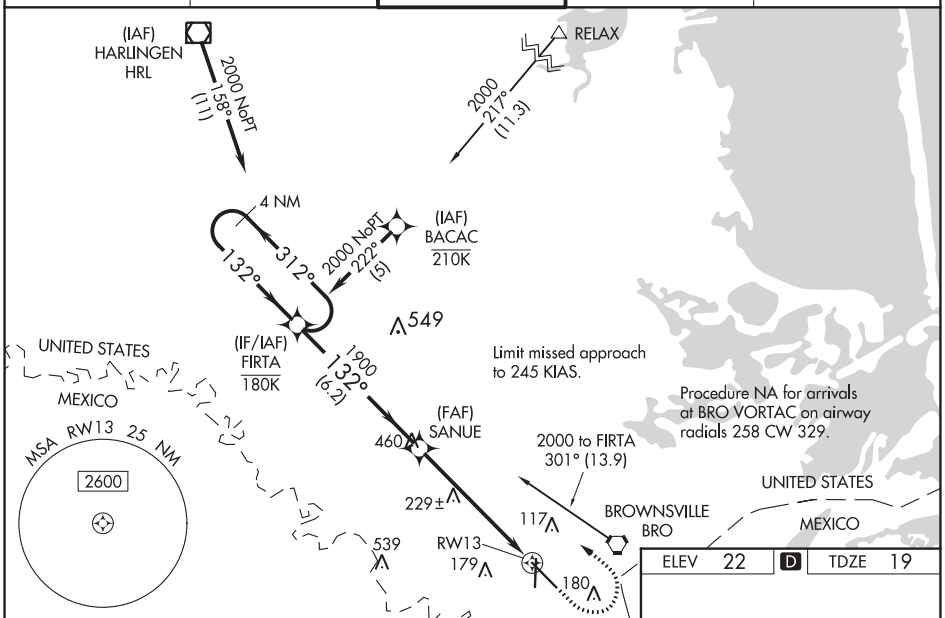
RNAV (GPS) RWY 13
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

T A Circling to Rwy 18 NA at night. For uncompensated Baro-VNAV systems, procedure NA below 3°C (38°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received use Port Isabel altimeter setting and increase LPV DA to 257 feet and LNAV/VNAV DA to 411 feet and all MDA 40 feet; increase LNAV/VNAV visibility all Cats to RVR 4500, LNAV visibility Cat C and D to RVR 5500. VDP and Baro-VNAV NA when using Port Isabel altimeter setting. For inop MALSR, increase LNAV Cat C/D visibility to 1⅜ mile. ** RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Port Isabel altimeter setting.

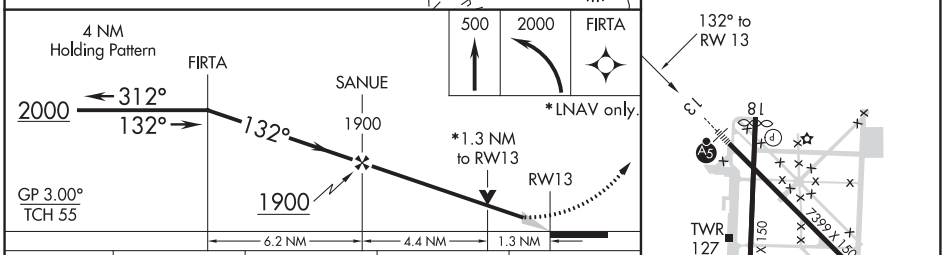
MALSR A6

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct FIRTA and hold.

ATIS	VALLEY APP CON	BROWNSVILLE TOWER*	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95



ELEV 22 D TDZE 19



CATEGORY	A	B	C	D
LPV DA **	219/24 200 (200-½)			
LNAV/VNAV DA	373/30 354 (400-⅝)			
LNAV MDA	480/24 461 (500-½)		480/50 461 (500-1)	
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

HIRL Rwy 13-31
MIRL Rwy 18-36

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BROWNSVILLE, TEXAS

AL-61 (FAA)

20142

RNAV (GPS) RWY 18

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

WAAS CH 93739 W18A	APP CRS 179°	Rwy ldg 5810 TDZE 20 Apt Elev 22

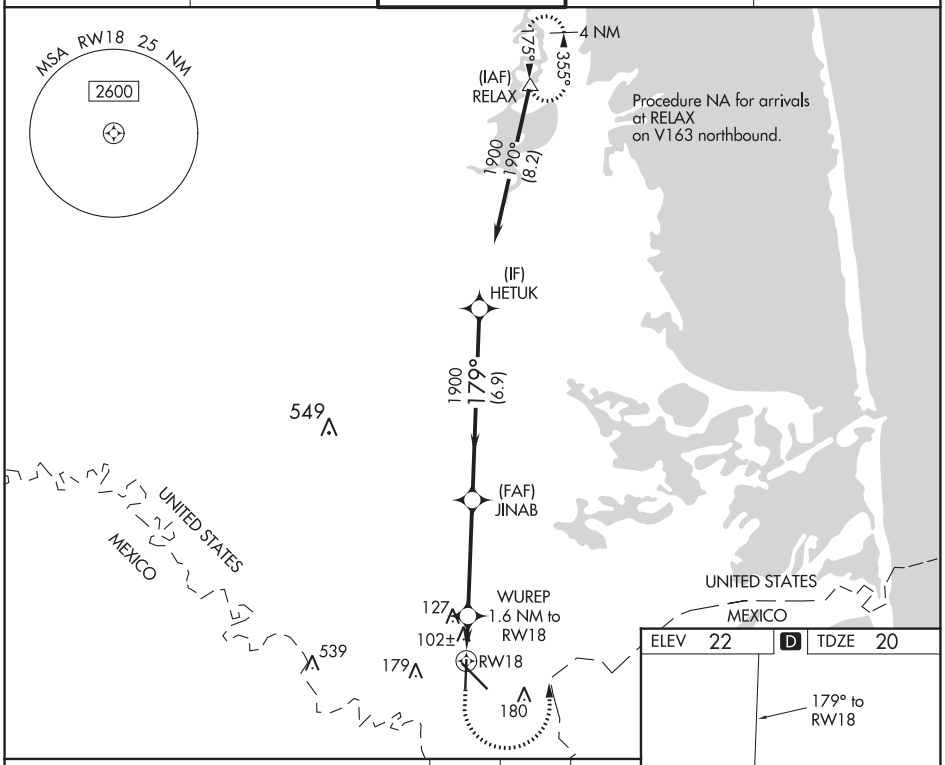
RNP APCH.

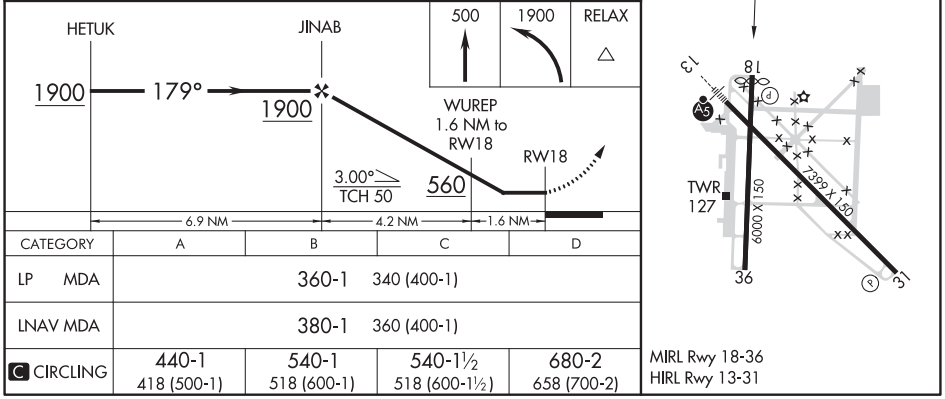
RADAR required.

T A Rwy 18 helicopter visibility reduction below ¾ SM NA. When local altimeter not received, use Port Isabel altimeter setting and increase all MDA 40 feet; increase LNAV Cats C and D visibility ⅛ mile and Circling Cat D ¼ mile.

MISSED APPROACH: Climb to 500 then climbing left turn to 1900 direct RELAX and hold.

ATIS	VALLEY APP CON	BROWNSVILLE TOWER ★	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95





CATEGORY	A	B	C	D
LP MDA	360-1 340 (400-1)			
LNAV MDA	380-1 360 (400-1)			
C CIRCLING	440-1 418 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

BROWNSVILLE, TEXAS

Orig-A 20JUN19

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

25°54′N-97°26′W

RNAV (GPS) RWY 18

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 65843 W31A	APP CRS 312°	Rwy ldg 7399 TDZE 20 Apt Elev 22

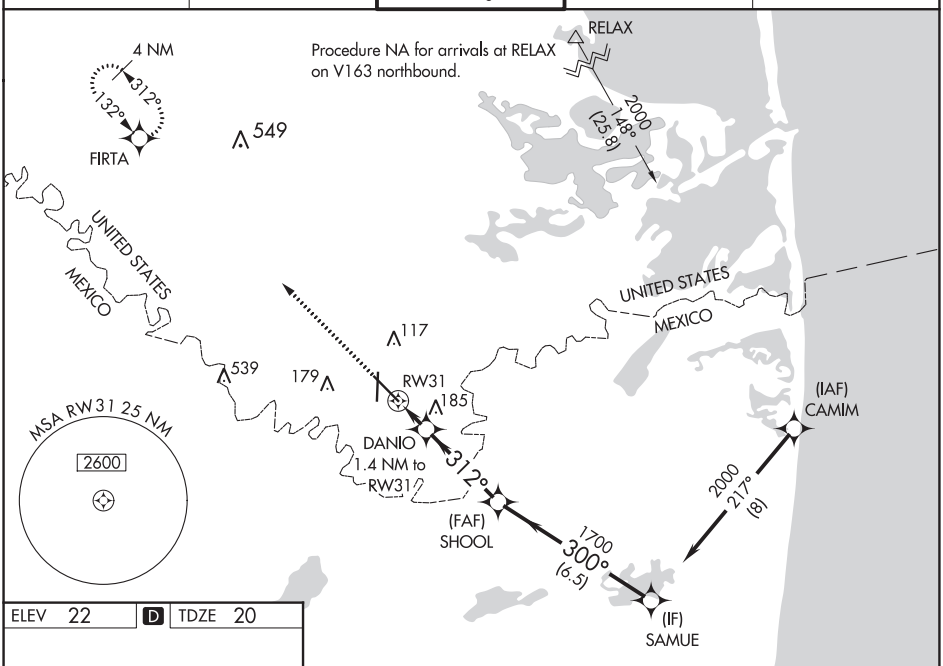
RNAV (GPS) RWY 31
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

RNP APCH.

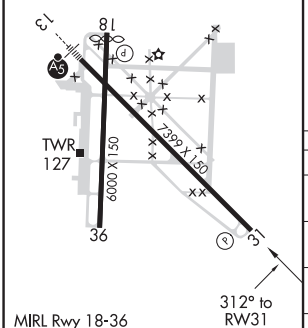
Circling Rwy 18 NA at night. Rwy 31 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2° C or above 54° C.

MISSED APPROACH: Climb to 2000 direct FIRTA and hold.

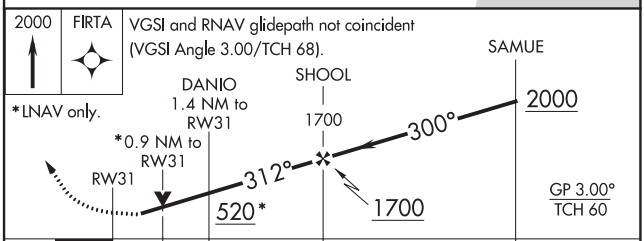
ATIS	VALLEY APP CON	BROWNSVILLE TOWER*	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95



ELEV 22 | D | TDZE 20



MIRL Rwy 18-36
HIRL Rwy 13-31



CATEGORY	A	B	C	D
LPV DA	270-¾ 250 (300-¾)			
LNAV/VNAV DA	270-¾ 250 (300-¾)			
LNAV MDA	380-1 360 (400-1)			
C CIRCLING	440-1 418 (500-1)	500-1 478 (500-1)	500-1½ 478 (500-1½)	680-2 658 (700-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

BROWNSVILLE, TEXAS

AL-61 (FAA)

20142

LOC BC RWY 31

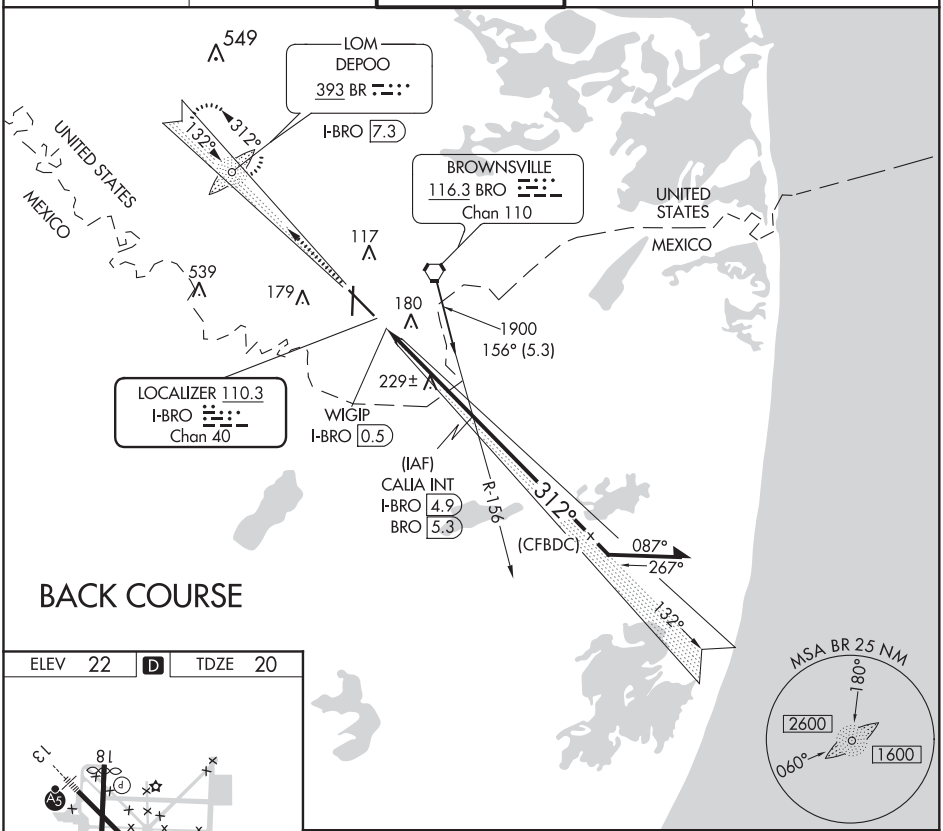
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

LOC/DME I-BRO	APP CRS	Rwy ldg 7399
110.3	312°	TDZE 20
Chan 40		Apt Elev 22

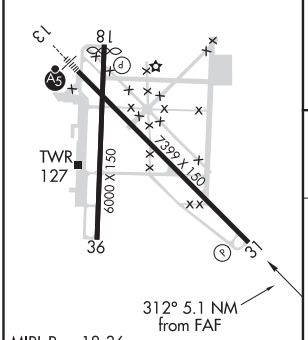
Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Port Isabel altimeter setting and increase all MDA 40 ft; increase Circling Cat D visibility ¼ mile. Circling to Rwy 18 NA at night. ADF or DME required. VDP NA when using Port Isabel altimeter setting.

MISSED APPROACH: Climb to 1900 on I-BRO localizer NW course (312°) to DEPOO LOM/ I-BRO 7.3 DME and hold.

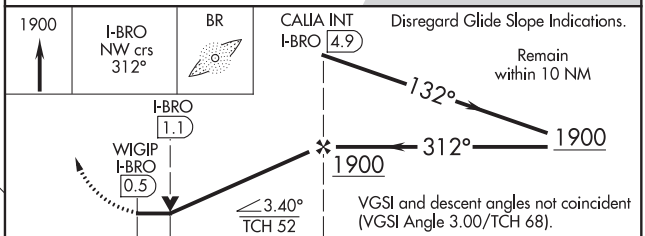
ATIS	VALLEY APP CON	BROWNSVILLE TOWER★	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95



ELEV 22	D	TDZE 20



MIRL Rwy 18-36
HIRL Rwy 13-31



FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

CATEGORY	A	B	C	D
S-31	480-1 460 (500-1)		480-1⅜	460 (500-1⅜)
C CIRCLING	480-1 458 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

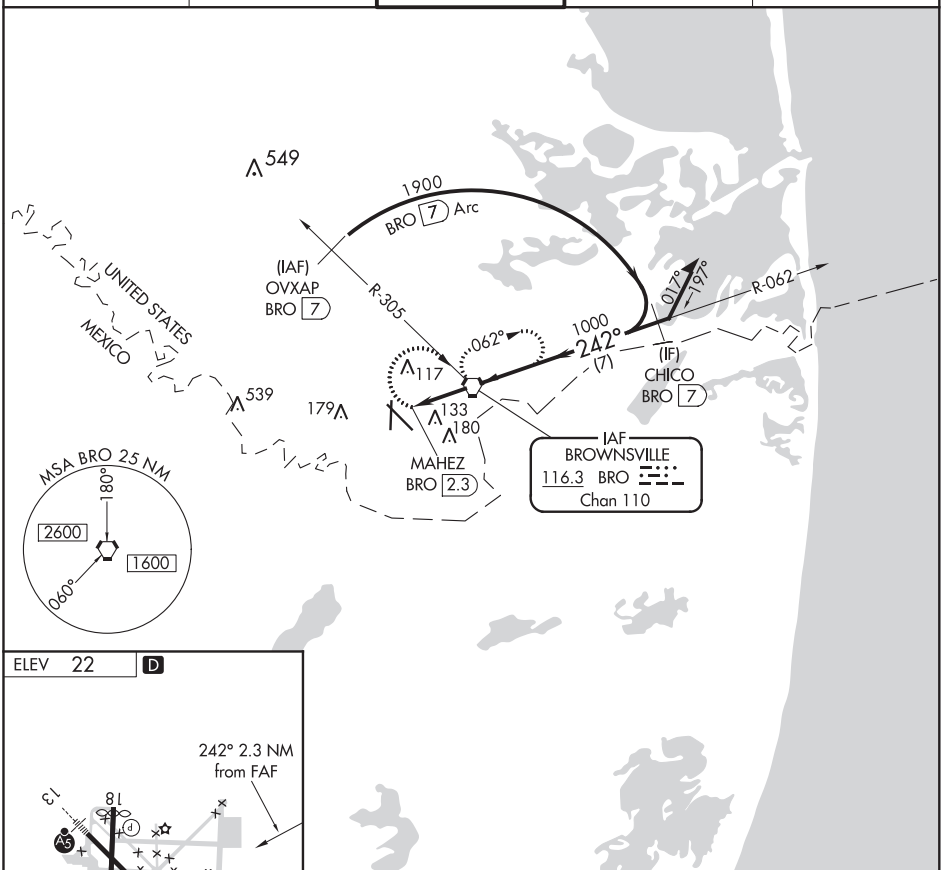
VOR or TACAN-A
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

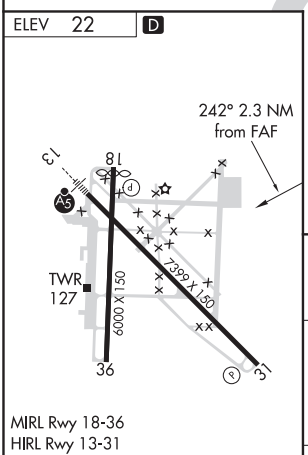
VORTAC BRO 116.3 Chan110	APP CRS 242°	Rwy ldg N/A TDZE N/A Apt Elev 22

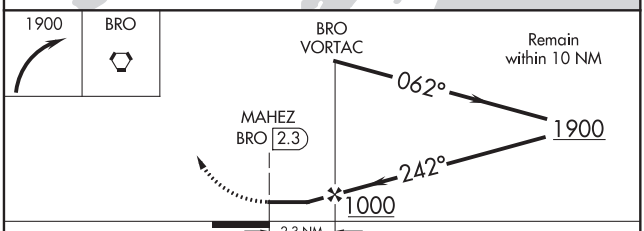
When local altimeter not received, use Port Isabel altimeter setting and increase all MDA 40 feet and Circling Cat D visibility ¼ SM.

MISSED APPROACH: Climbing right turn to 1900 direct BRO VORTAC and hold. (TACAN aircraft climbing right turn to 1900 on BRO R-062 to CHICO/BRO 7 DME and hold NE, right turn, 242° inbound).

ATIS	VALLEY APP CON	BROWNSVILLE TOWER★	GND CON	UNICOM
128.55	119.5 257.6	118.9 (CTAF) L 239.3	121.9	122.95







FAF to MAP 2.3 NM					
Knots	60	90	120	150	180
Min:Sec	2:18	1:32	1:09	0:55	0:46

CATEGORY	A	B	C	D
C CIRCLING	440-1 418 (500-1)	540-1 518 (600-1)	540-1½ 518 (600-1½)	680-2 658 (700-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

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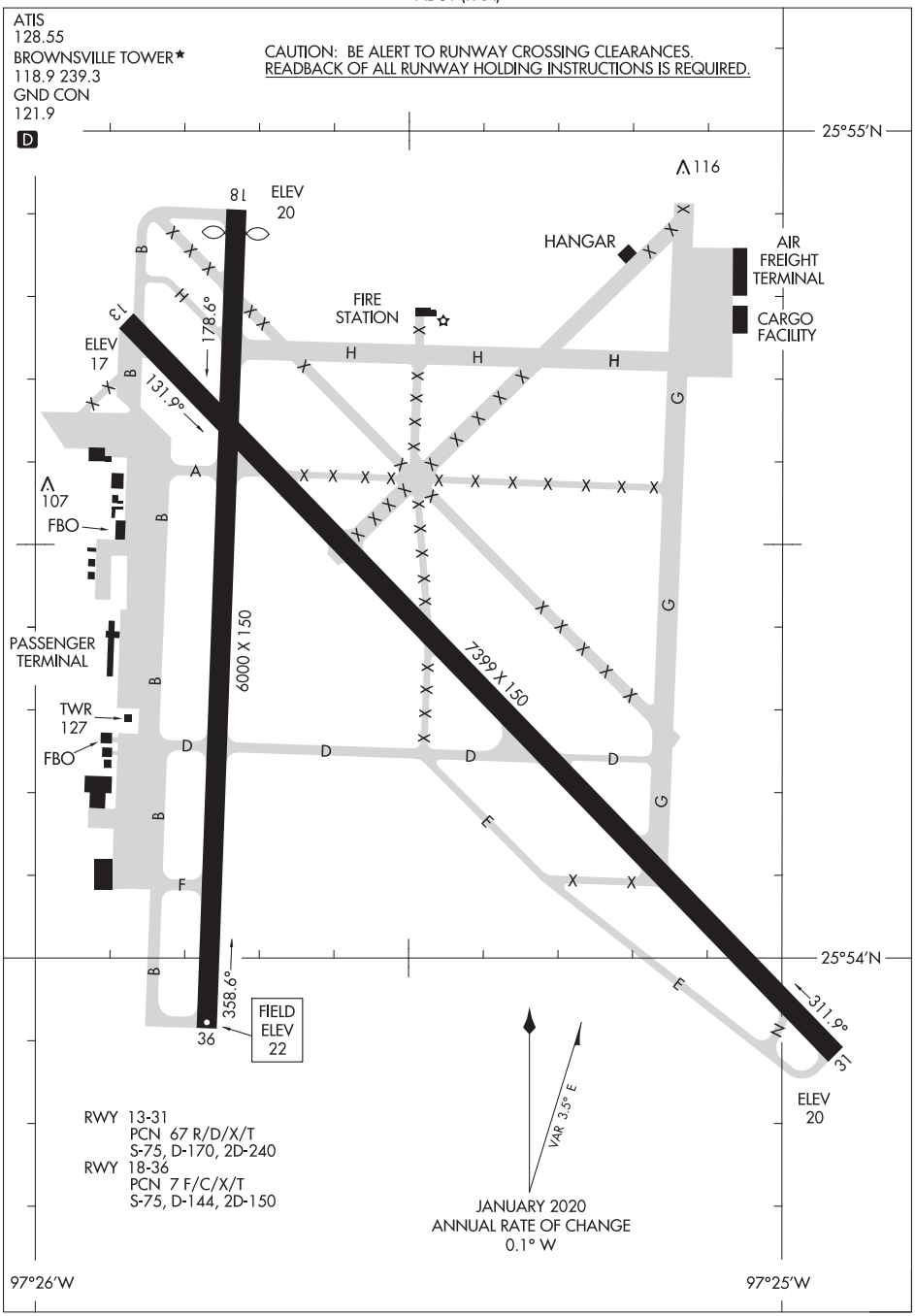
AIRPORT DIAGRAM

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)
AL-61 (FAA)
BROWNSVILLE, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20142
BROWNSVILLE, TEXAS
BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

RNAV (GPS) RWY 17
BROWNWOOD RGNL (BWD)

WAAS CH 70325 W17A	APP CRS 175°	Rwy ldg 5599 TDZE 1387 Apt Elev 1387

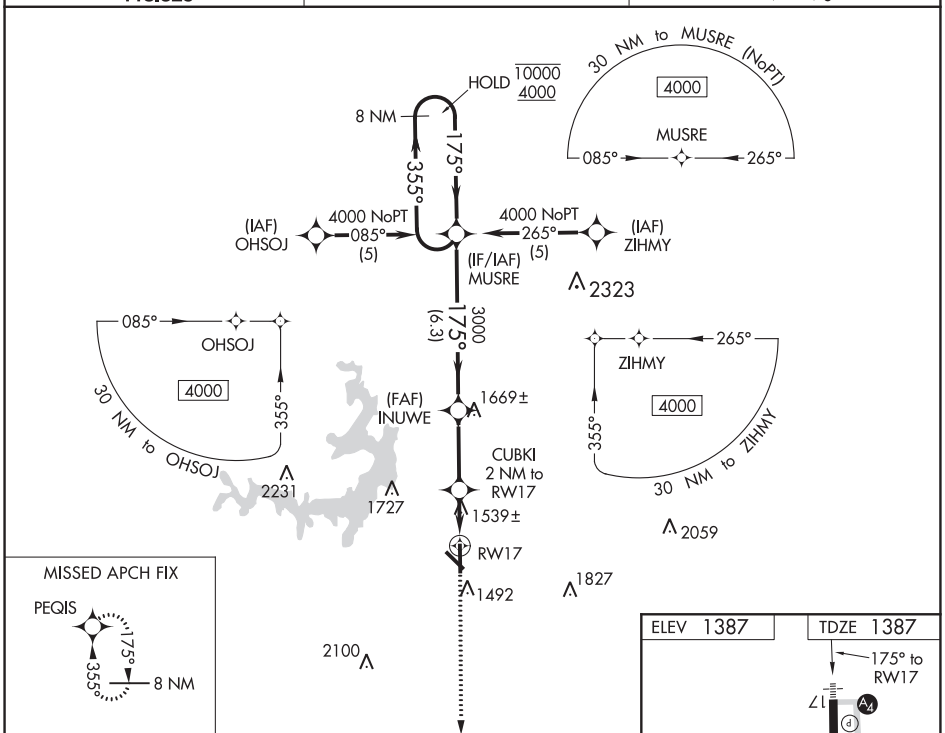
RNP APCH.

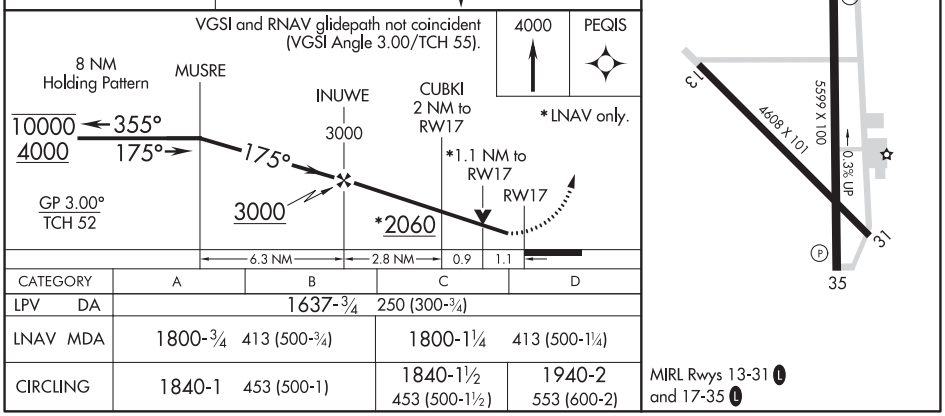
Rwy 17 helicopter visibility reduction below ¾ SM NA.

MALS

MISSED APPROACH: Climb to 4000 direct PEQIS and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.325	127.45 290.3	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1637-¾ 250 (300-¾)			
LNAV MDA	1800-¾ 413 (500-¾)		1800-1¼ 413 (500-1¼)	
CIRCLING	1840-1 453 (500-1)		1840-1½ 453 (500-1½)	1940-2 553 (600-2)

MIRL Rwys 13-31 L and 17-35 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

BROWNWOOD, TEXAS | AL-705 (FAA) | 20142

RNAV (GPS) RWY 35
BROWNWOOD RGNL (BWD)

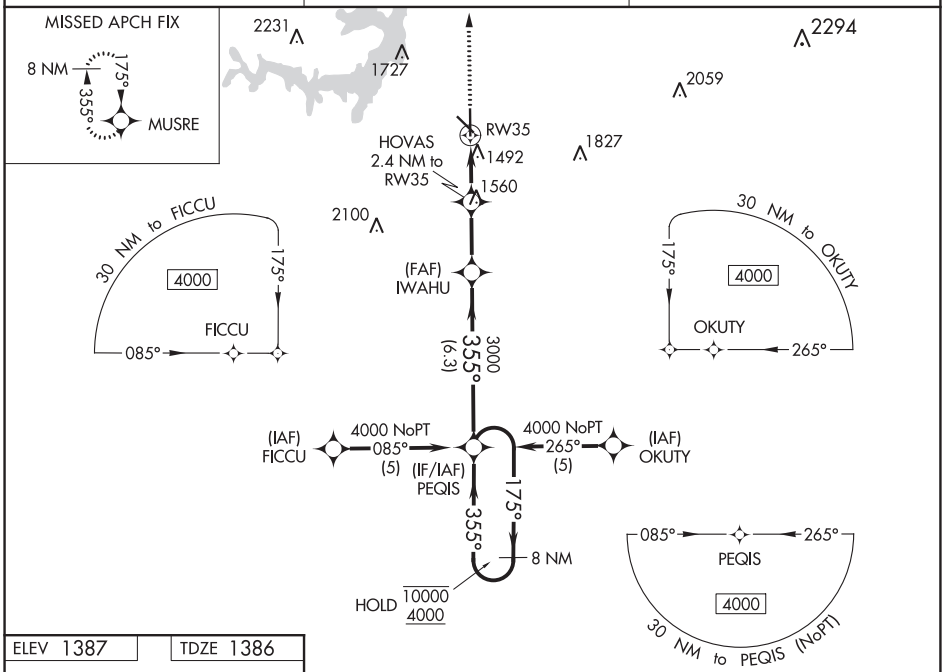
WAAS CH 77525 W35A	APP CRS 355°	Rwy ldg 5599 TDZE 1386 Apt Elev 1387

RNP APCH.

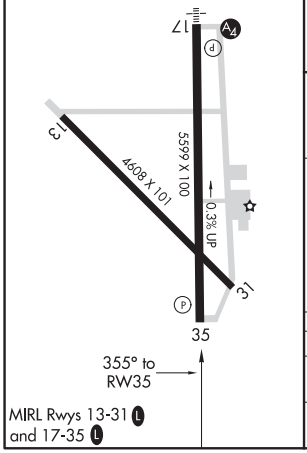
Rwy 35 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 4000 direct MUSRE and hold.

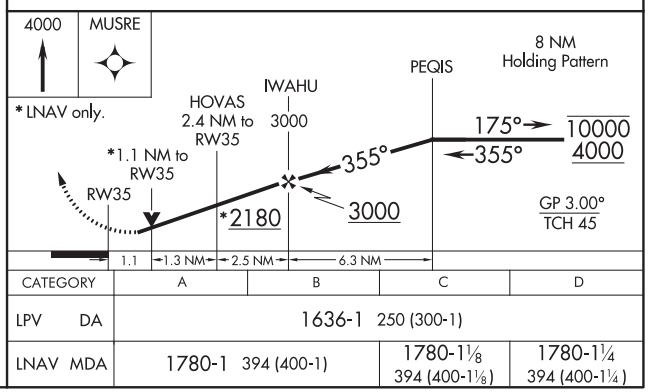
AWOS-3	FORT WORTH CENTER	UNICOM
118.325	127.45 290.3	122.8 (CTAF)



ELEV 1387 | TDZE 1386



MIRL Rwys 13-31 L and 17-35 L



CATEGORY	A	B	C	D
LPV DA	1636-1 250 (300-1)			
LNAV MDA	1780-1 394 (400-1)		1780-1⅛ 394 (400-1⅛)	1780-1¼ 394 (400-1¼)

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LOC RWY 17
BROWNWOOD RGNL (BWD)

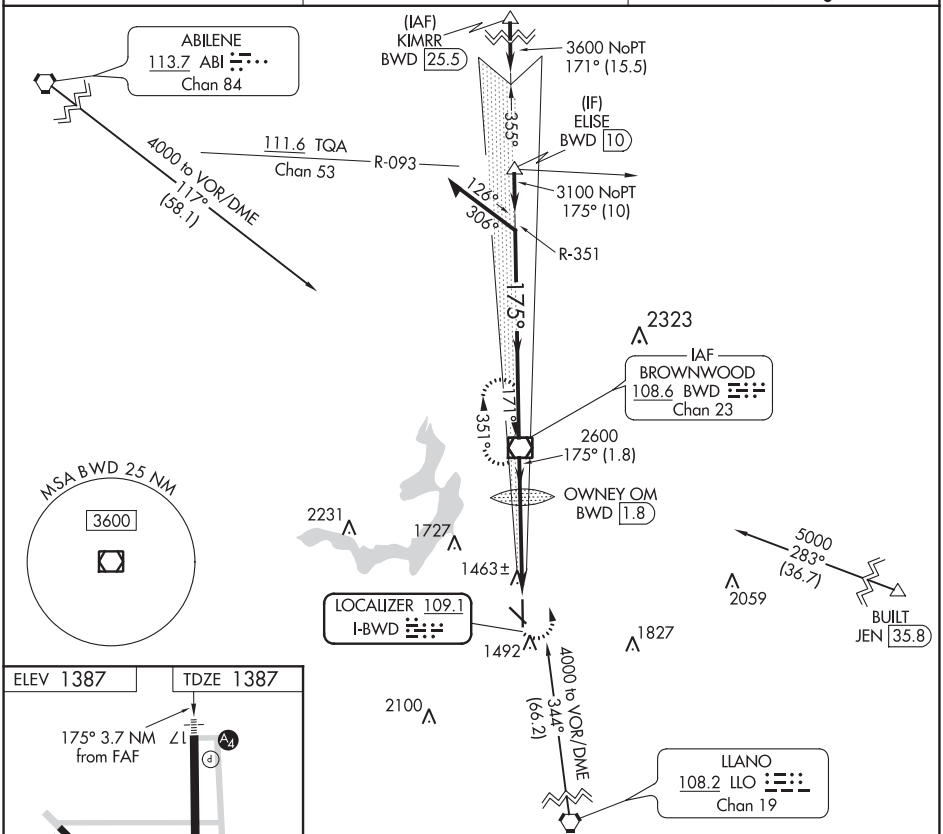
LOC I-BWD	APP CRS	Rwy ldg / TDZE / Apt Elev
109.1	175°	5599 / 1387 / 1387

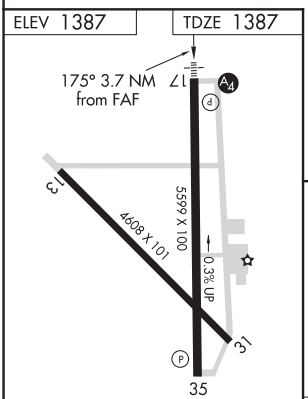
Rwy 17 helicopter visibility reduction below ¾ SM NA. Inop table does not apply.

MALS

MISSED APPROACH: Climbing left turn to 3600 direct BWD VOR/DME and hold.

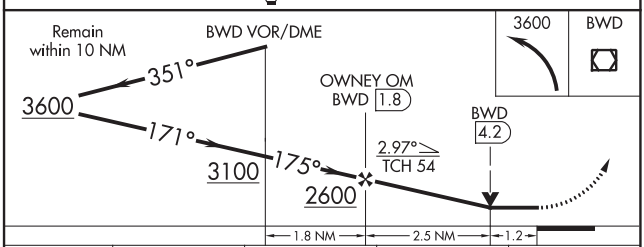
AWOS-3	FORT WORTH CENTER	UNICOM
118.325	127.45 290.3	122.8 (CTAF) L





MIRL Rwys 13-31 L
and 17-35 L

FAF to MAP 3.7 NM					
Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14



CATEGORY	A	B	C	D
S-17	1820-1 433 (500-1)		1820-1¼ 433 (500-1¼)	1820-1½ 433 (500-1½)
CIRCLING	1820-1 433 (500-1)	1840-1 453 (500-1)	1840-1½ 453 (500-1½)	1940-2 553 (600-2)

SC-3, 25 FEB 2021 to 22 APR 2021

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BROWNWOOD, TEXAS

AL-705 (FAA)

20142

VOR RWY 35

BROWNWOOD RGNL (BWD)

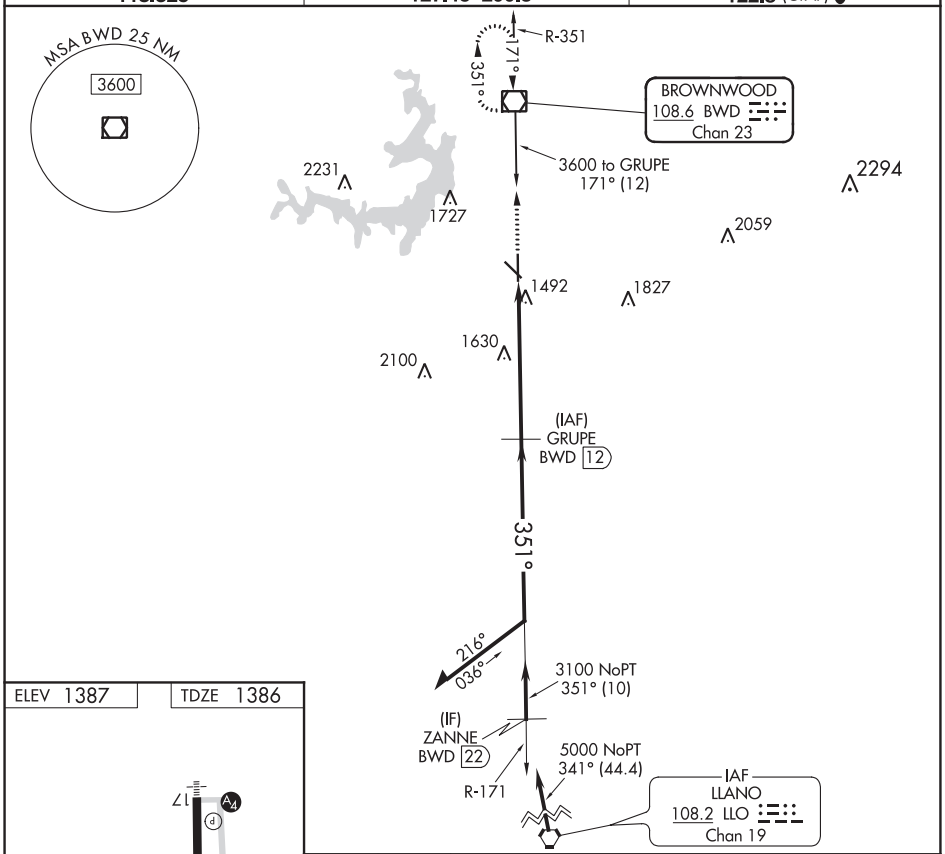
VOR/DME BWD	APP CRS	Rwy ldg	5599
108.6	351°	TDZE	1386
Chan 23		Apt Elev	1387

DME required.

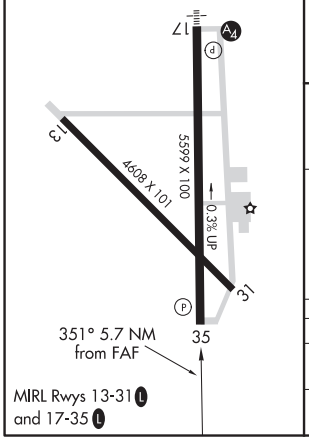
Rwy 35 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3600 direct BWD VOR/DME and hold.

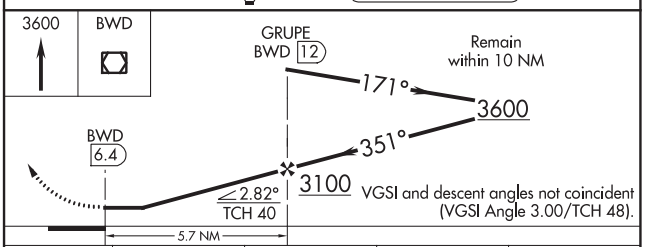
AWOS-3	FORT WORTH CENTER	UNICOM
118.325	127.45 290.3	122.8 (CTAF) L



ELEV 1387 | TDZE 1386



MIRL Rwys 13-31 L and 17-35 L



CATEGORY	A	B	C	D
S-35	1940-1 554 (600-1)		1940-1⅝ 554 (600-1⅝)	
CIRCLING	1940-1 553 (600-1)		1940-1⅝ 553 (600-1⅝)	1940-2 553 (600-2)

APP CRS	Rwy ldg	5001
009°	TDZE	1270
	Apt Elev	1284

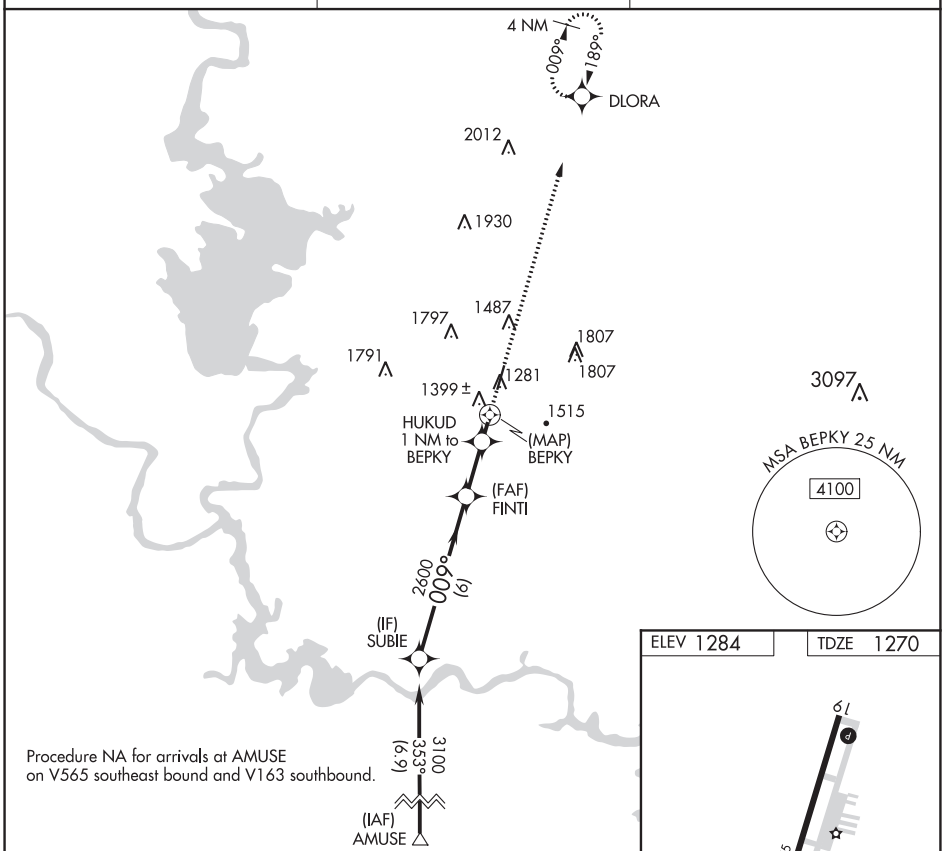
RNAV (GPS) RWY 1
BURNET MUNI KATE CRADDOCK FIELD (BMQ)

RNP APCH.

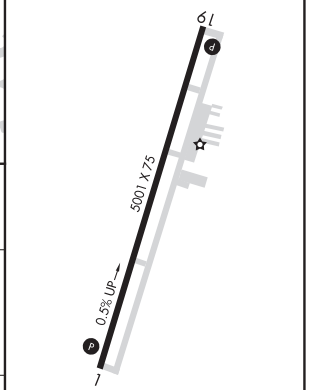
Rwy 1 helicopter visibility reduction below ¾ SM NA.
When local altimeter setting not received, use Lago Vista altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climb to 3500 direct DLORA and hold.

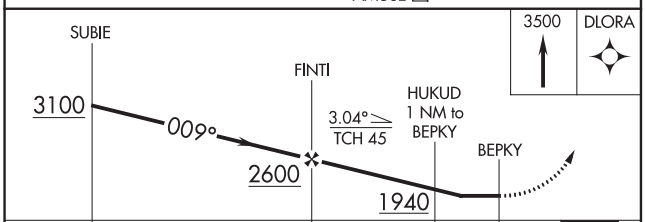
ASOS	HOUSTON CENTER	UNICOM
119.925	132.35 317.5	122.8 (CTAF) L



ELEV 1284 TDZE 1270



REIL Rwys 1 and 19 L
MIRL Rwy 1-19 L



CATEGORY	A	B	C	D
LNAV MDA	1660-1¼ 390 (400-1¼)			NA

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SC-3, 25 FEB 2021 to 22 APR 2021

BURNET, TEXAS | AL-5772 (FAA) | 20142

RNAV (GPS) RWY 19
BURNET MUNI KATE CRADDOCK FIELD (BMQ)

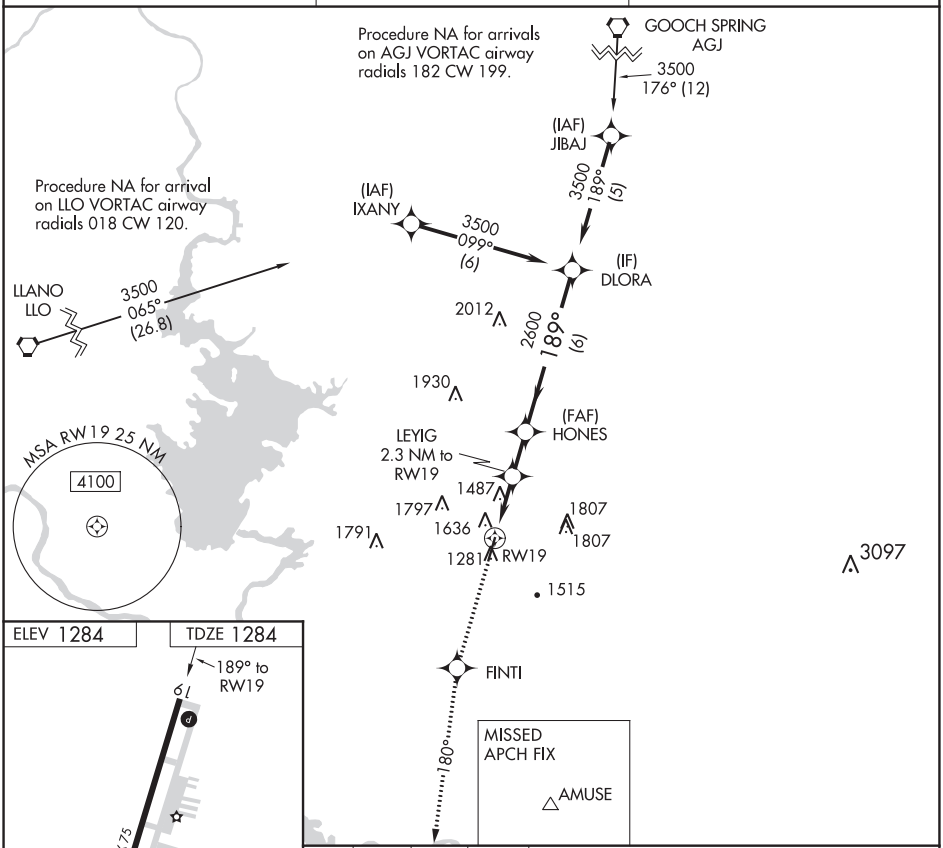
APP CRS	Rwy ldg	5001
189°	TDZE	1284
	Apt Elev	1284

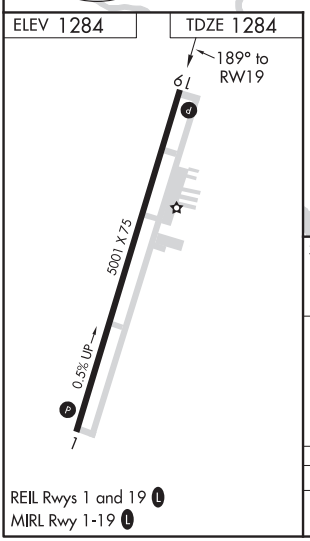
RNP APCH.

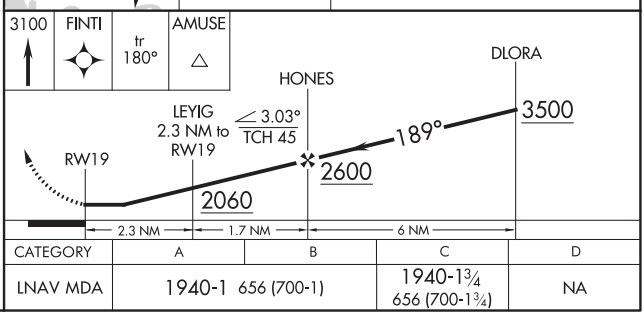
When local altimeter setting not received, use Lago Vista altimeter setting and increase all MDA 60 feet and increase LNAV Cats A/B/C visibilities ¼ SM. Procedure NA at night. Rwy 19 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3100 direct FINTI then via track 180° to AMUSE.

ASOS	HOUSTON CENTER	UNICOM
119.925	132.35 317.5	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	1940-1 656 (700-1)		1940-1¾ 656 (700-1¾)	NA

REIL Rwys 1 and 19 L
MIRL Rwy 1-19 L

BURNET, TEXAS
Orig-C 21MAY20

30°44′N-98°14′W

BURNET MUNI KATE CRADDOCK FIELD (BMQ)
RNAV (GPS) RWY 19

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 82133 W13A	APP CRS 127°	Rwy ldg 5003 TDZE 598 Apt Elev 598

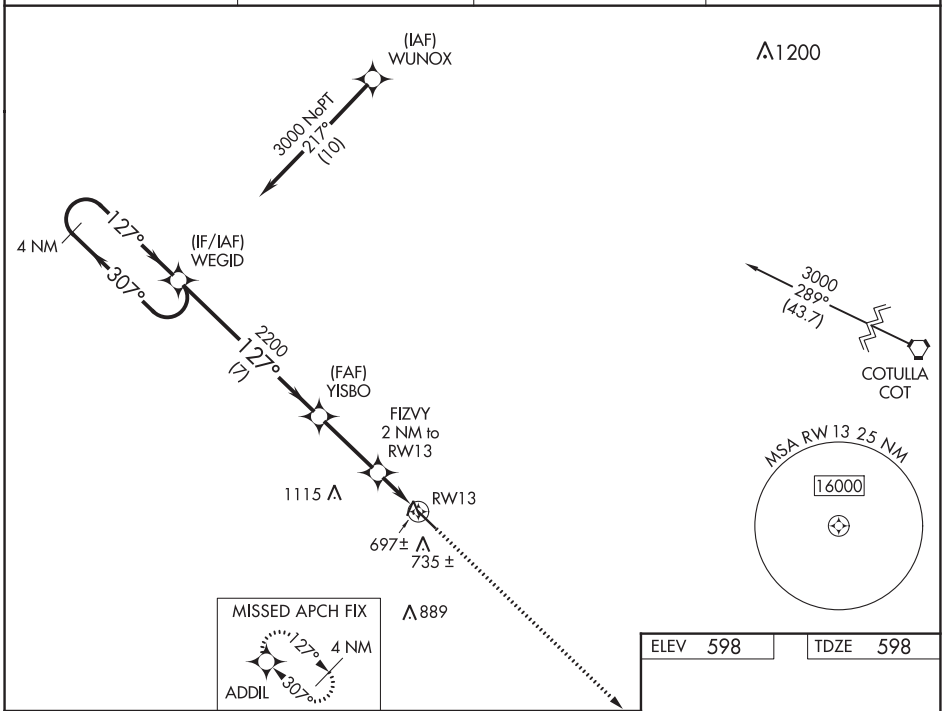
RNAV (GPS) RWY 13
DIMMIT COUNTY (CZT)

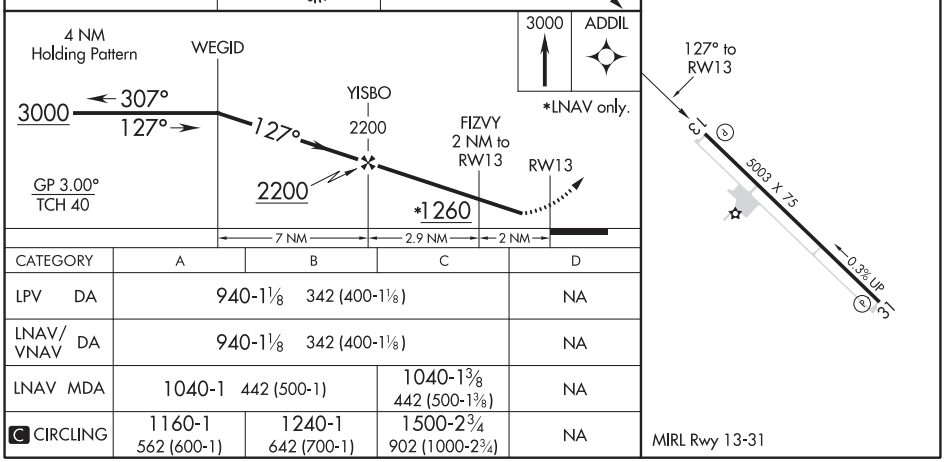
NA

Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Cotulla altimeter setting; when not received use Uvalde altimeter setting and increase all DA 52 feet, all MDA 60 feet and increase LPV all Cats, LNAV/VNAV all Cats, and Circling Cat C visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct ADDIL and hold.

AWOS-3	COT ASOS	HOUSTON CENTER	UNICOM
119.625	118.325	127.8 307.5	122.8 (CTAF)





CATEGORY	A	B	C	D
LPV DA	940-1⅛ 342 (400-1⅛)			NA
LNAV/VNAV DA	940-1⅛ 342 (400-1⅛)			NA
LNAV MDA	1040-1 442 (500-1)		1040-1⅜ 442 (500-1⅜)	NA
C CIRCLING	1160-1 562 (600-1)	1240-1 642 (700-1)	1500-2¾ 902 (1000-2¾)	NA

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

CARRIZO SPRINGS, TEXAS

AL-6272 (FAA)

20310

RNAV (GPS) RWY 31
DIMMIT COUNTY (CZT)

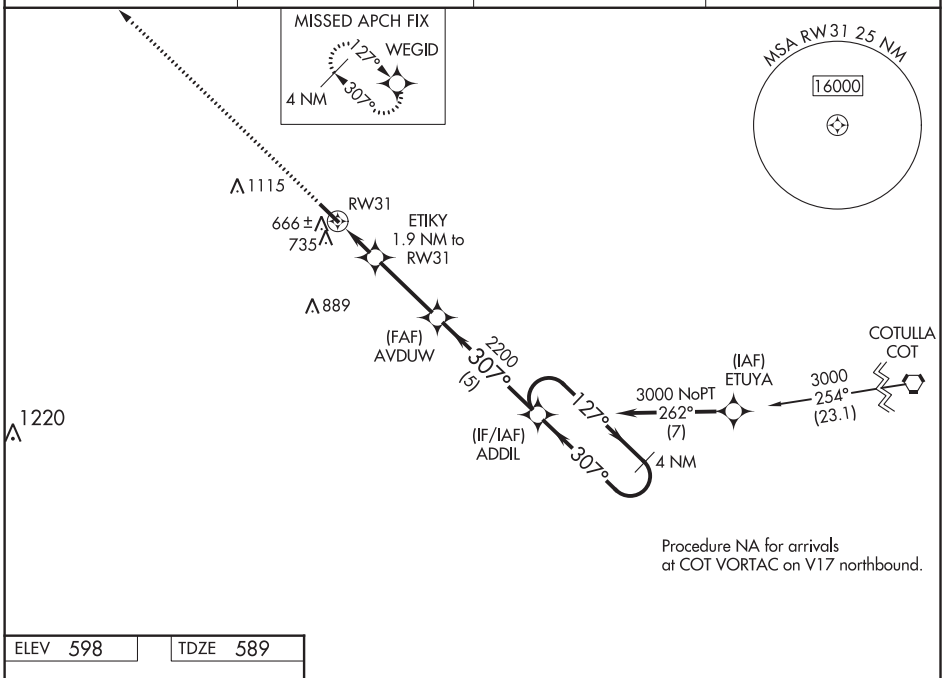
WAAS CH 50433 W31A	APP CRS 307°	Rwy ldg 5003 TDZE 589 Apt Elev 598

T
A NA

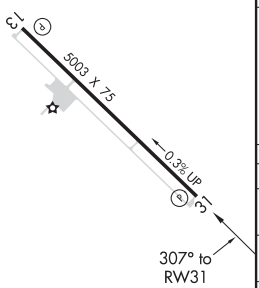
Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Cotulla altimeter setting; when not received use Uvalde altimeter setting and increase all DA 52 feet, all MDA 60 feet and increase LPV all Cats, LNAV/VNAV all Cats, and Circling Cat C visibility ¼ mile. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3000 direct WEGID and hold.

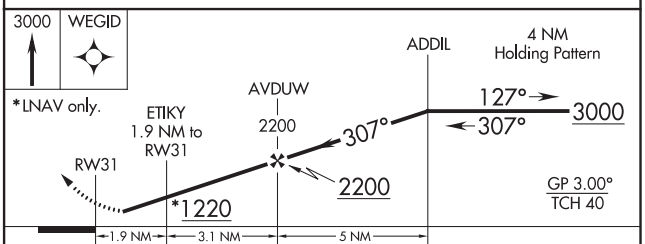
AWOS-3	COT ASOS	HOUSTON CENTER	UNICOM
119.625	118.325	127.8 307.5	122.8 (CTAF)



ELEV 598	TDZE 589



MIRL Rwy 13-31



CATEGORY	A	B	C	D
LPV DA	931-1⅛ 342 (400-1⅛)			NA
LNAV/VNAV DA	931-1⅛ 342 (400-1⅛)			NA
LNAV MDA	1040-1 451 (500-1)		1040-1⅜ 451 (500-1⅜)	NA
C CIRCLING	1160-1 562 (600-1)	1240-1 642 (700-1)	1500-2¾ 902 (1000-2¾)	NA

CARRIZO SPRINGS, TEXAS
Amdt 1A 13NOV14

28°31′N-99°49′W

DIMMIT COUNTY (CZT)
RNAV (GPS) RWY 31

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

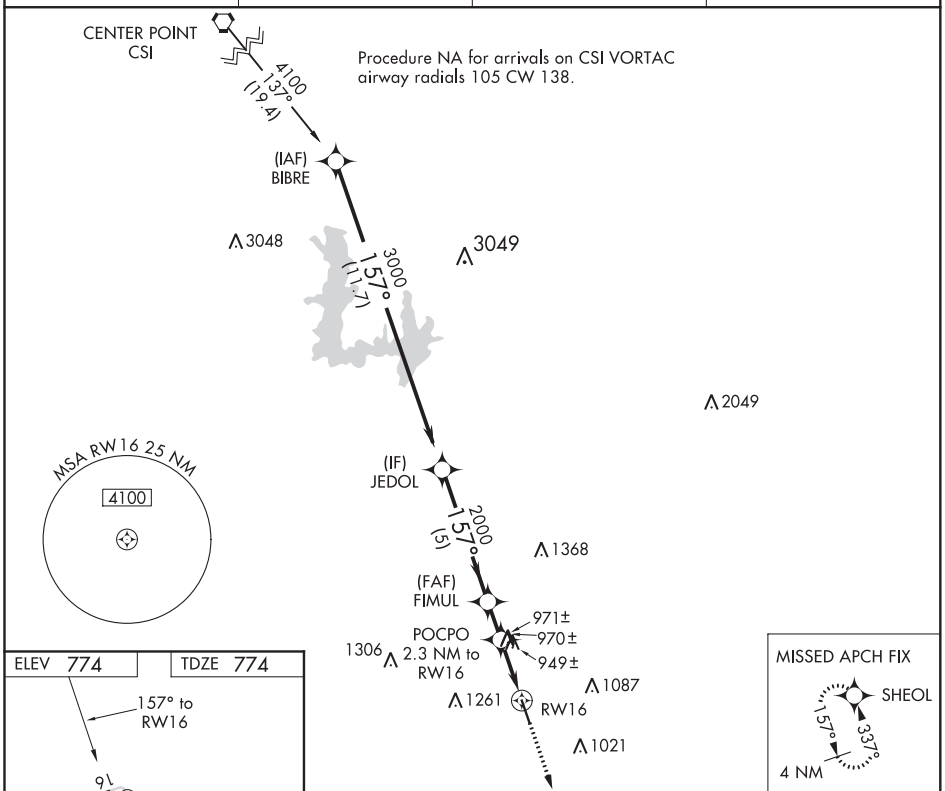
WAAS CH 86838 W16A	APP CRS 157°	Rwy ldg 5001 TDZE 774 Apt Elev 774

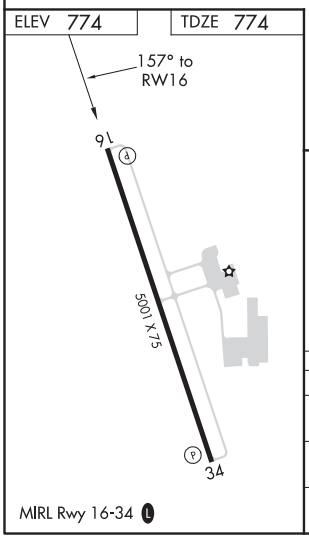
RNAV (GPS) RWY 16
CASTROVILLE MUNI (CVB)

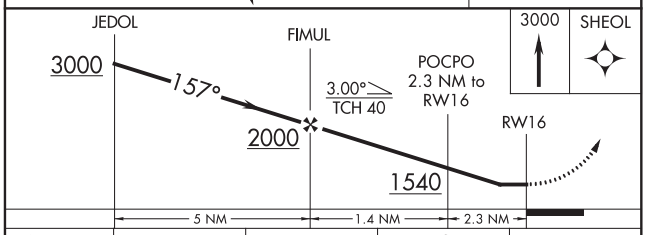
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lackland AFB (Kelly FLD Annex) altimeter setting: increase all MDA 60 feet, increase all Cat C visibilities ¼ mile. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 16 NA.

MISSED APPROACH: Climb to 3000 direct SHEOL and hold.

AWOS-3	HDO ASOS	SAN ANTONIO APP CON	UNICOM
119.25	119.675	118.05 353.5	122.8 (CTAF) L







CATEGORY	A	B	C	D
LP MDA	1200-1 426 (500-1)		1200-1¼ 426 (500-1¼)	NA
LNAV MDA	1240-1 466 (500-1)		1240-1⅜ 466 (500-1⅜)	NA
C CIRCLING	1240-1 466 (500-1)	1380-1 606 (700-1)	1580-2¼ 806 (900-2¼)	NA

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CASTROVILLE, TEXAS | AL-6552 (FAA) | 19283

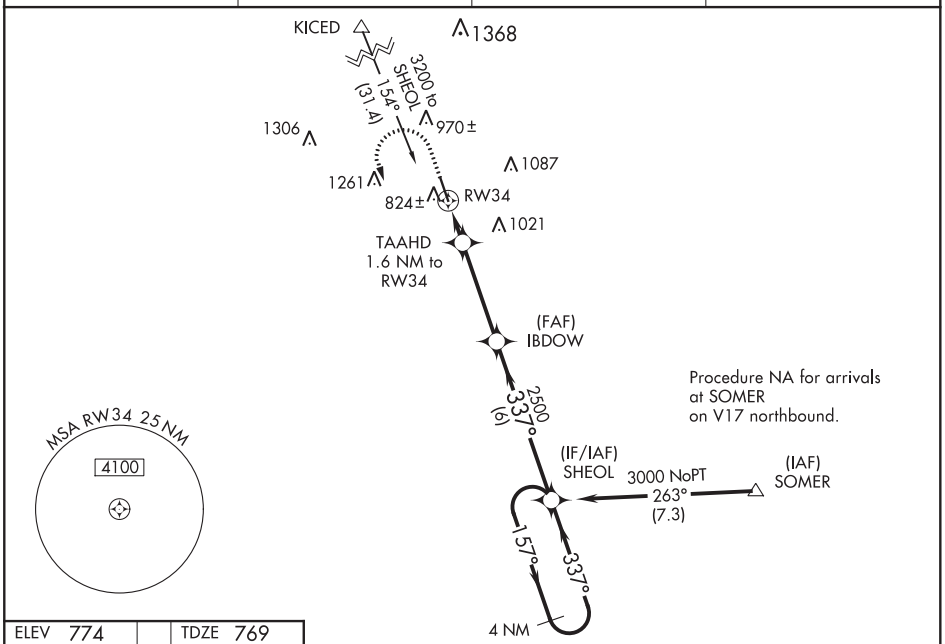
WAAS CH 50139 W34A	APP CRS 337°	Rwy ldg 5001 TDZE 769 Apt Elev 774

RNAV (GPS) RWY 34
CASTROVILLE MUNI (CVB)

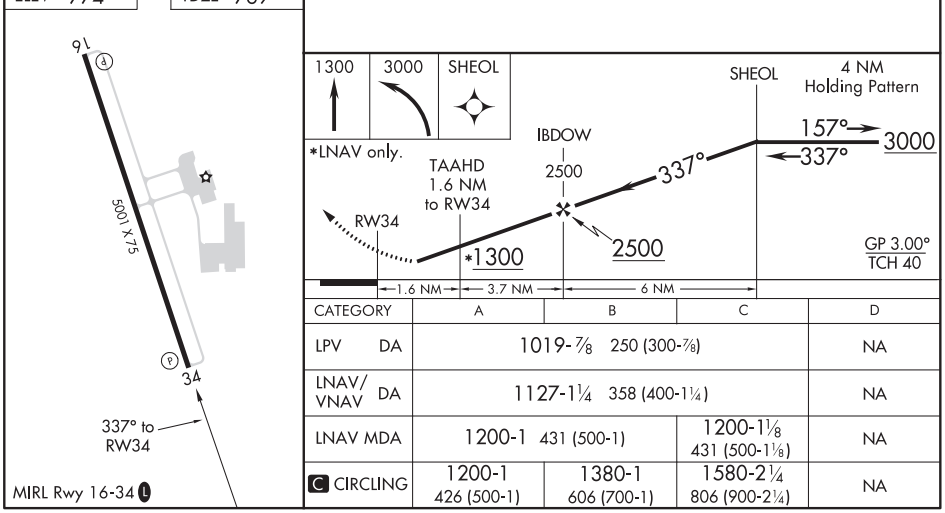
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Lackland AFB (Kelly Fld Annex) altimeter setting: increase all DA/MDA 60 feet and all visibilities ¼ mile. Helicopter visibility reduction below ¾ SM NA. Night landing: Rwy 16 NA.

MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct SHEOL and hold.

AWOS-3	HDO ASOS	SAN ANTONIO APP CON	UNICOM
119.25	119.675	118.05 353.5	122.8 (CTAF) L



ELEV 774 | TDZE 769



CATEGORY	A	B	C	D
LPV DA	1019-⅞ 250 (300-⅞)			NA
LNAV/VNAV DA	1127-1¼ 358 (400-1¼)			NA
LNAV MDA	1200-1 431 (500-1)		1200-1⅛ 431 (500-1⅛)	NA
C CIRCLING	1200-1 426 (500-1)	1380-1 606 (700-1)	1580-2¼ 806 (900-2¼)	NA

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SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 15
COLEMAN MUNI (COM)

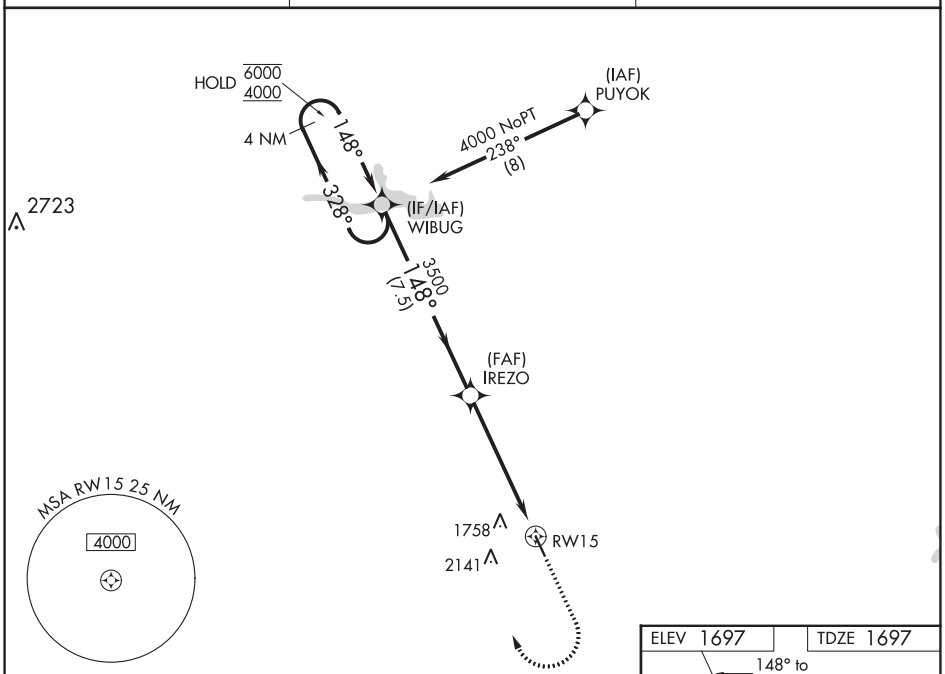
WAAS CH 86529 W15A	APP CRS 148°	Rwy ldg 4506 TDZE 1697 Apt Elev 1697

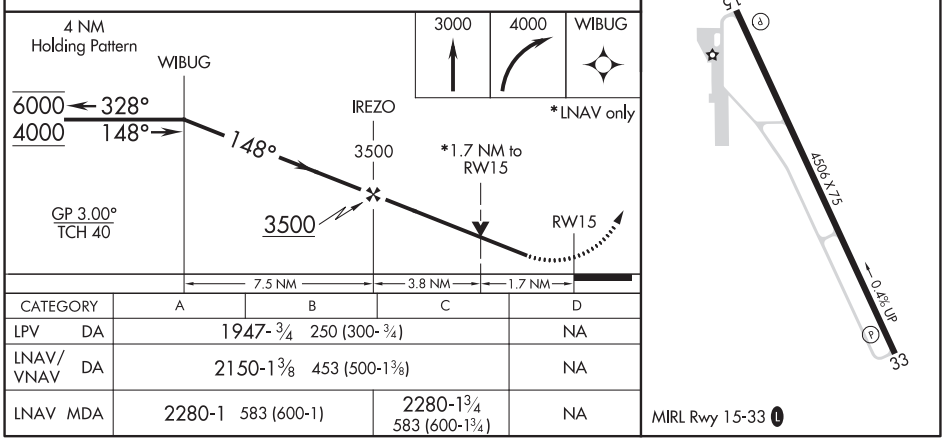
RNP APCH.

Rwy 15 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C or above 54°C.

MISSED APPROACH: Climb to 3000 then climbing right turn to 4000 direct WIBUG and hold.

AWOS-3PT	FORT WORTH CENTER	UNICOM
119.1	127.45 290.3	122.8 (CTAF) L





CATEGORY		A	B	C	D
LPV	DA	1947-¾ 250 (300-¾)			NA
LNAV/VNAV	DA	2150-1⅜ 453 (500-1⅜)			NA
LNAV	MDA	2280-1 583 (600-1)		2280-1¾ 583 (600-1¾)	NA

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SC-3, 25 FEB 2021 to 22 APR 2021

COLEMAN, TEXAS

AL-881 (FAA)

19283

RNAV (GPS) RWY 33

COLEMAN MUNI (COM)

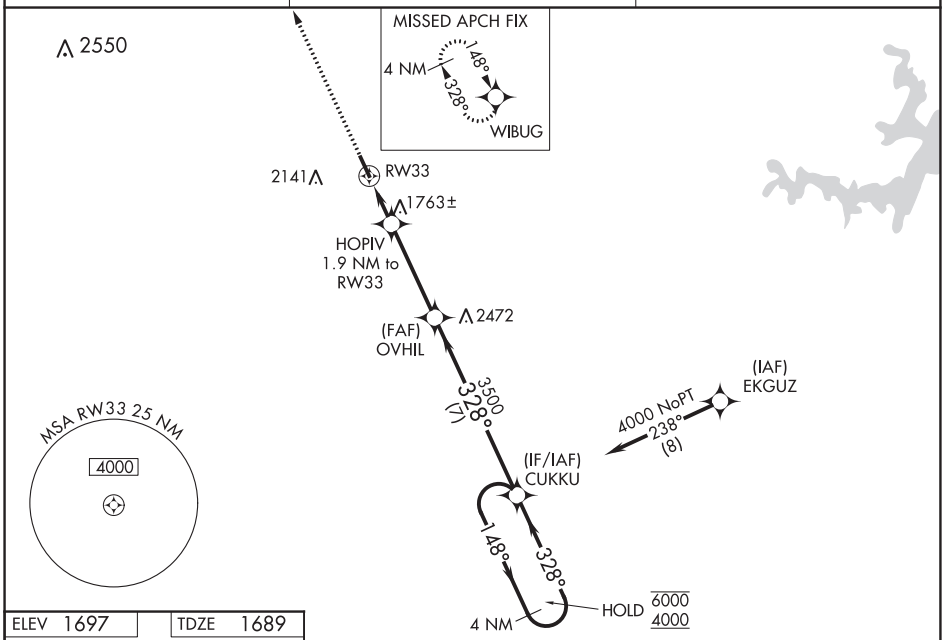
WAAS CH 82034 W33A	APP CRS 328°	Rwy ldg 4506 TDZE 1689 Apt Elev 1697

RNP APCH.

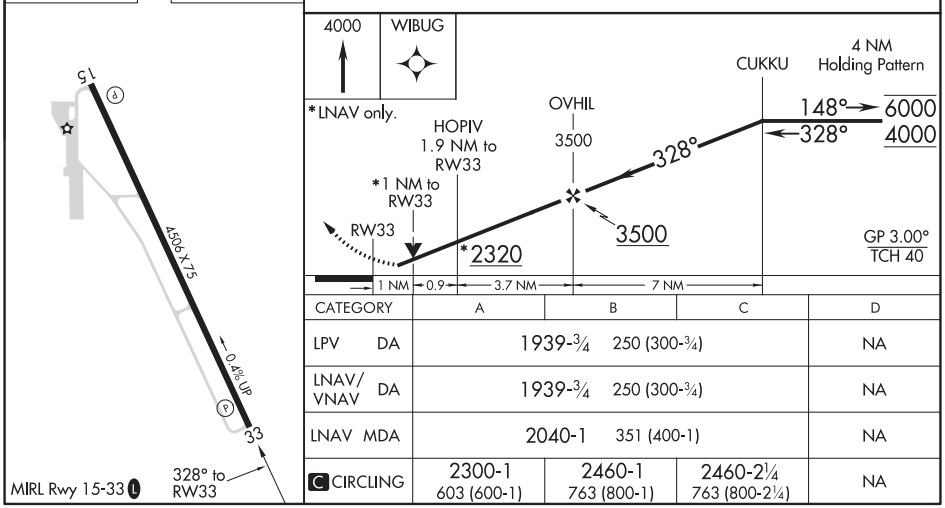
Rwy 33 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C or above 54°C.

MISSED APPROACH: Climb to 4000 direct WIBUG and hold.

AWOS-3PT	FORT WORTH CENTER	UNICOM
119.1	127.45 290.3	122.8 (CTAF) L



ELEV 1697	TDZE 1689



CATEGORY		A	B	C	D
LPV	DA	1939-¾ 250 (300-¾)			NA
LNAV/VNAV	DA	1939-¾ 250 (300-¾)			NA
LNAV	MDA	2040-1 351 (400-1)			NA
C CIRCLING		2300-1 603 (600-1)	2460-1 763 (800-1)	2460-2¼ 763 (800-2¼)	NA

MIRL Rwy 15-33 L

COLEMAN, TEXAS
Amdt 1 10OCT19

31°50′N-99°24′W

COLEMAN MUNI (COM)

RNAV (GPS) RWY 33

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

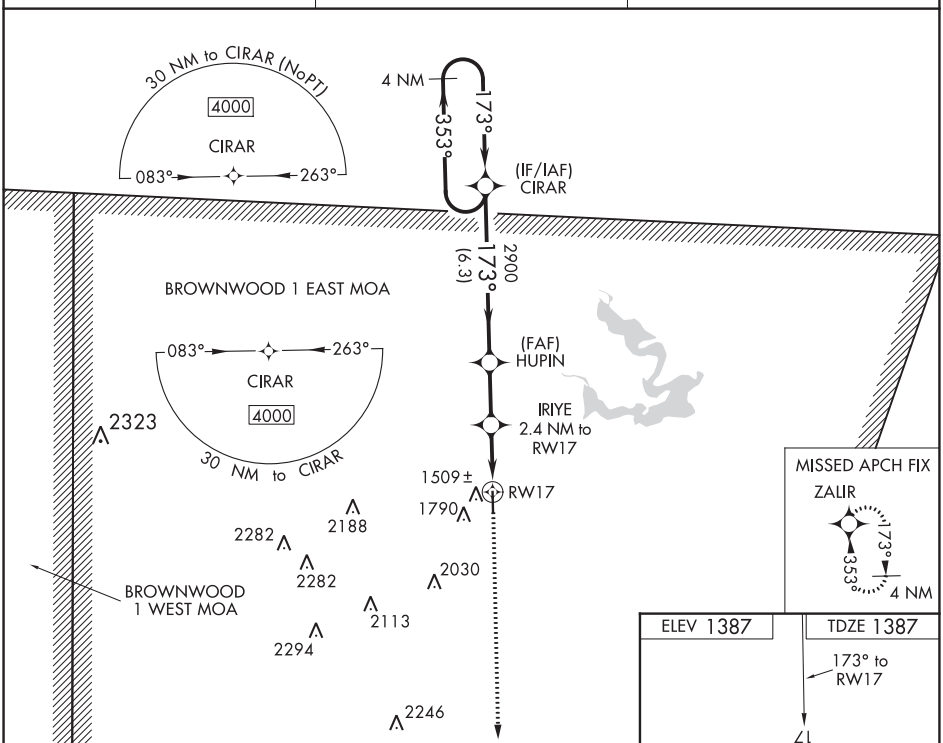
WAAS CH 97436 W17A	APP CRS 173°	Rwy ldg 4497 TDZE 1387 Apt Elev 1387

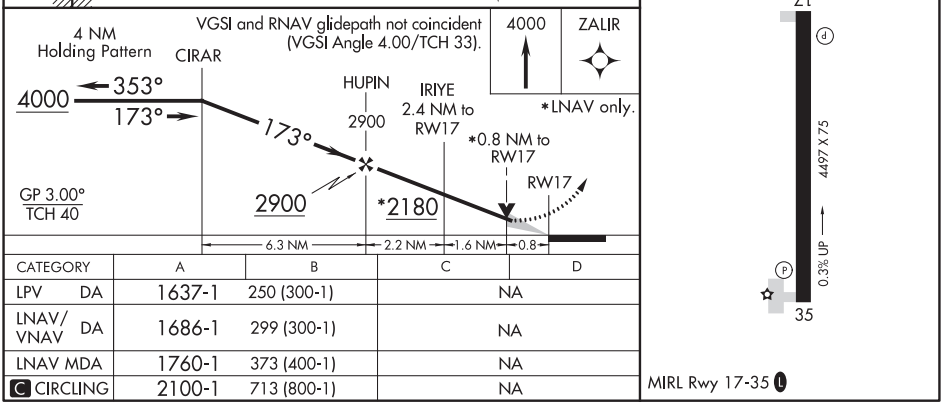
RNAV (GPS) RWY 17
COMANCHE COUNTY-CITY (MKN)

Night landing: Rwy 35 NA. DME/DME RNP-0.3 NA. When local altimeter setting is not received, use Brownwood altimeter setting: increase all DA 46 feet and all MDA 60 feet, increase LNAV/VNAV visibility all Cats ⅛ mile. Baro-VNAV and VDP NA when using Brownwood altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F).

MISSED APPROACH: Climb to 4000 direct ZALIR and hold.

AWOS-3	FORT WORTH CENTER	UNICOM
118.575	127.15 314.0	123.075 (CTAF)





CATEGORY	A	B	C	D
LPV DA	1637-1	250 (300-1)	NA	
LNAV/VNAV DA	1686-1	299 (300-1)	NA	
LNAV MDA	1760-1	373 (400-1)	NA	
C CIRCLING	2100-1	713 (800-1)	NA	

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COMANCHE, TEXAS | AL-10216 (FAA) | 20198

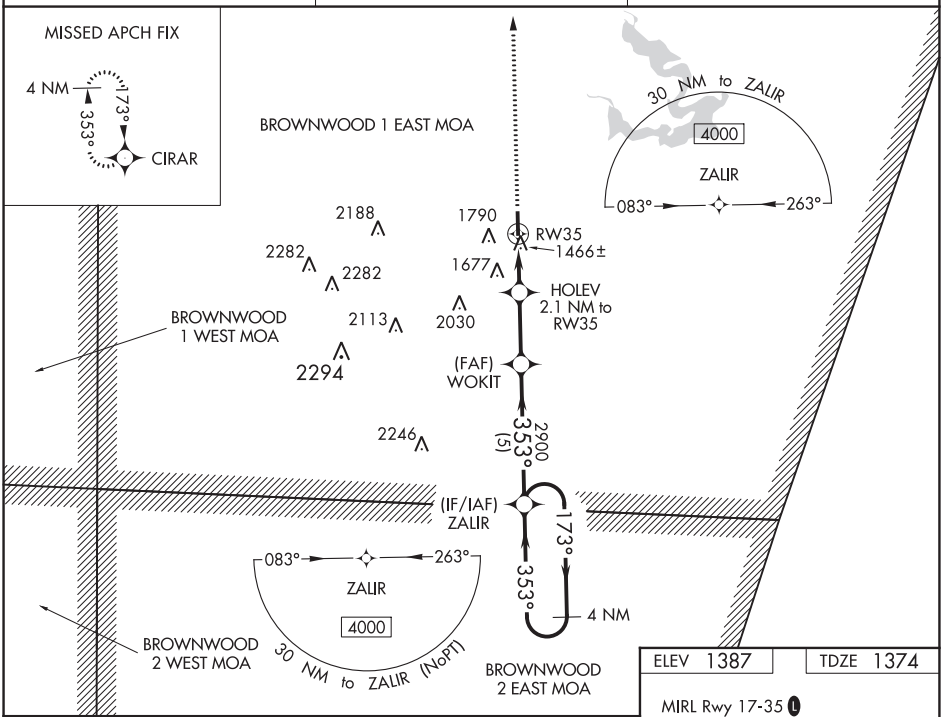
WAAS CH 61136 W35A	APP CRS 353°	Rwy ldg 4497 TDZE 1374 Apt Elev 1387

RNAV (GPS) RWY 35
COMANCHE COUNTY-CITY (MKN)

When local altimeter setting not received, use Brownwood altimeter setting and increase all MDA 60 feet. DME/DME RNP-0.3 NA. Rwy 35 Straight-In and Circling minimums NA at night. Helicopter visibility reduction below 1 SM NA.

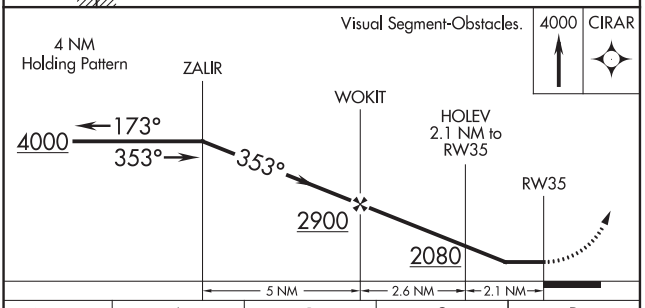
MISSED APPROACH: Climb to 4000 direct CIRAR and hold.

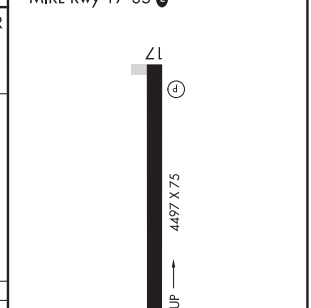
AWOS-3	FORT WORTH CENTER	UNICOM
118.575	127.15 314.0	123.075 (CTAF)



ELEV 1387 | TDZE 1374

MIRL Rwy 17-35 L





CATEGORY	A	B	C	D
LP MDA	1720-1 346 (400-1)		NA	
LNAV MDA	1800-1 426 (500-1)		NA	
C CIRCLING	2100-1 713 (800-1)		NA	

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ILS or LOC RWY 13
CORPUS CHRISTI INTL (CRP)

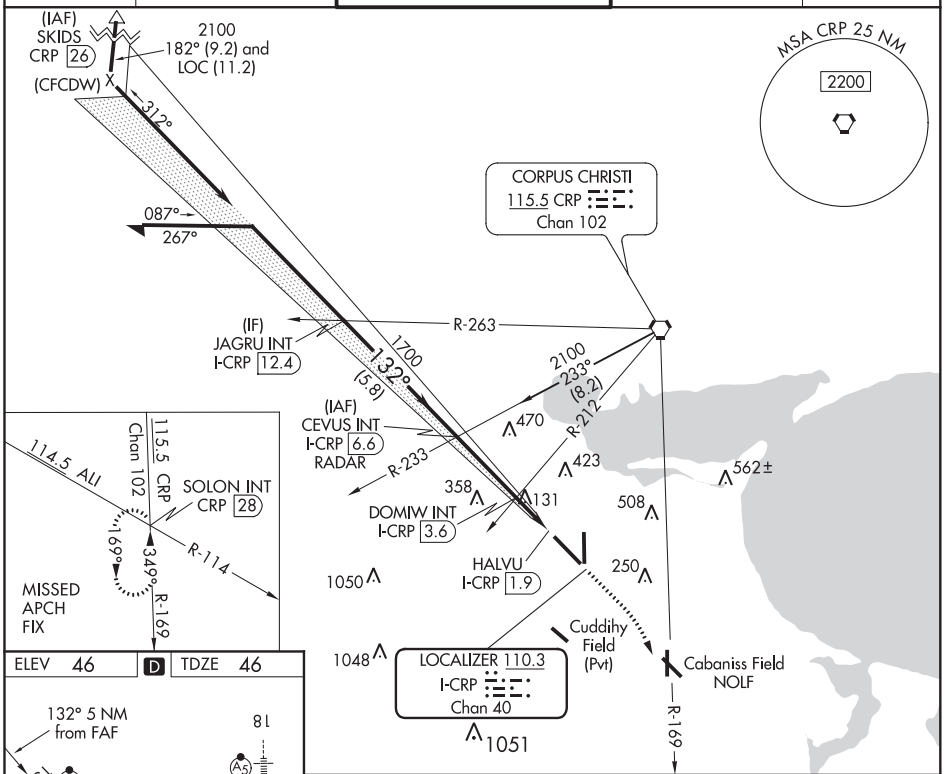
LOC/DME I-CRP	APP CRS	Rwy ldg	7510
110.3	132°	TDZE	46
Chan 40		Apt Elev	46

For inop MALSR, increase S-ILS 13 Cat E visibility to RVR 4000 and S-LOC 13 Cats C/D/E visibility to RVR 5500. #RVR 1800 authorized with use of FD or AP or HUD to DA.

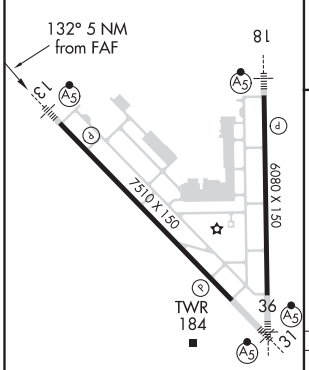
MALSR

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 on heading 132° and CRP VORTAC R-169 to SOLON INT/CRP VORTAC 28 DME and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55

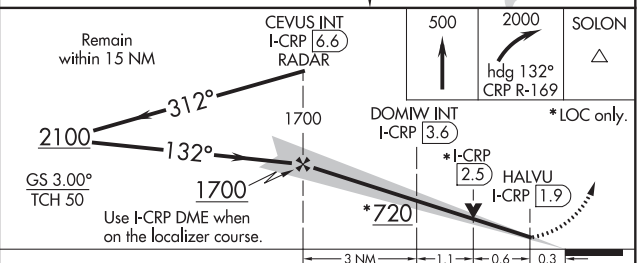


ELEV 46	D	TDZE 46



HIRL Rwys 13-31 and 18-36

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34



CATEGORY	A	B	C	D	E
S-ILS 13#	246/24 200 (200-½)				
S-LOC 13	400/24 354 (400-½)		400/30 354 (400-⅝)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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ILS or LOC RWY 36
CORPUS CHRISTI INTL (CRP)

LOC/DME I-OYC	APP CRS	Rwy ldg	6080
109.5	355°	TDZE	40
Chan 32		Apt Elev	46

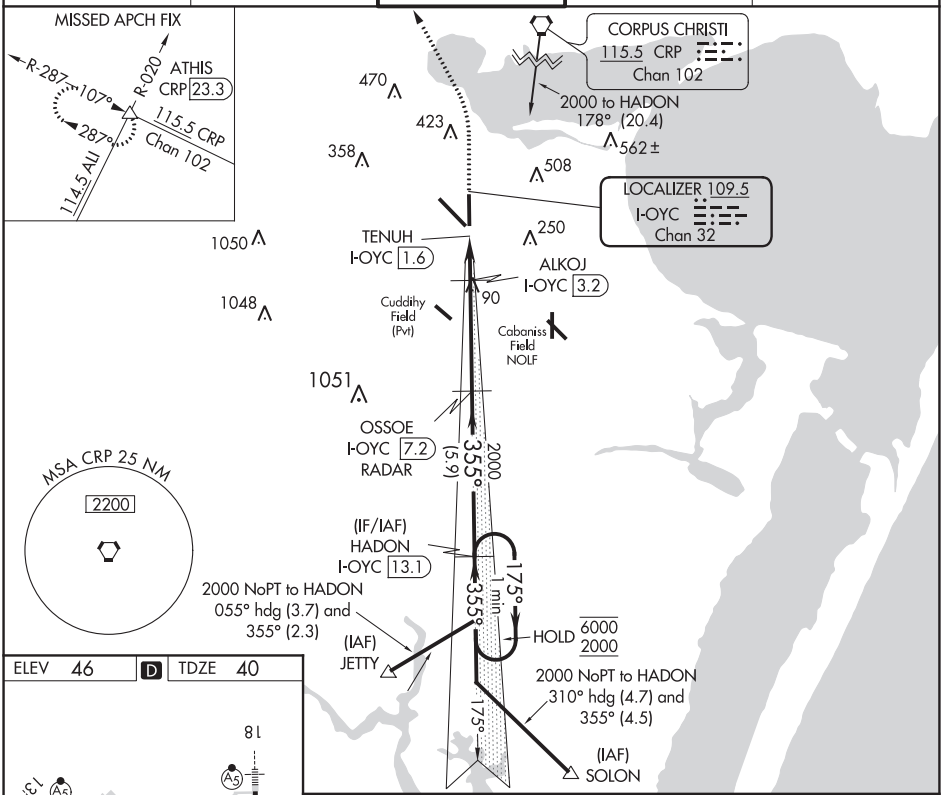
DME required for LOC only.

For inop ALS, increase S-ILS 36 Cat E visibility to RVR 4000 and S-LOC 36 Cat C/D/E visibility to RVR 4500.

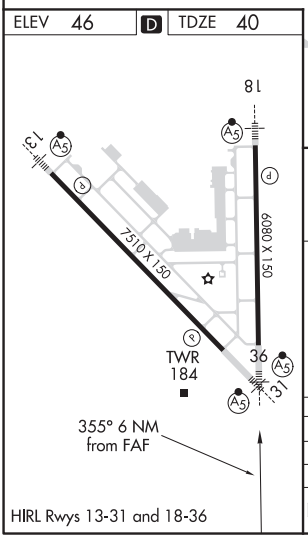
MALSR

MISSED APPROACH: Climb to 700 then climbing left turn to 2000 on heading 338° and on CRP VORTAC R-287 to ATHIS INT/CRP 23.3 DME and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55



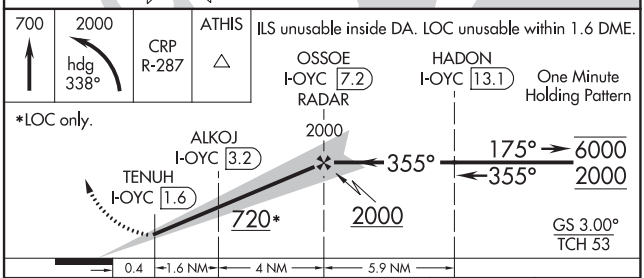
ELEV 46	D	TDZE 40



700	2000 hdg 338°	CRP R-287	ATHIS

ILS unusable inside DA. LOC unusable within 1.6 DME.

*LOC only.



CATEGORY	A	B	C	D	E
S-ILS 36	240/24 200 (200-½)				
S-LOC 36	340/24 300 (300-½)				
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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APP CRS	Rwy ldg	7510
132°	TDZE	46
	Apt Elev	46

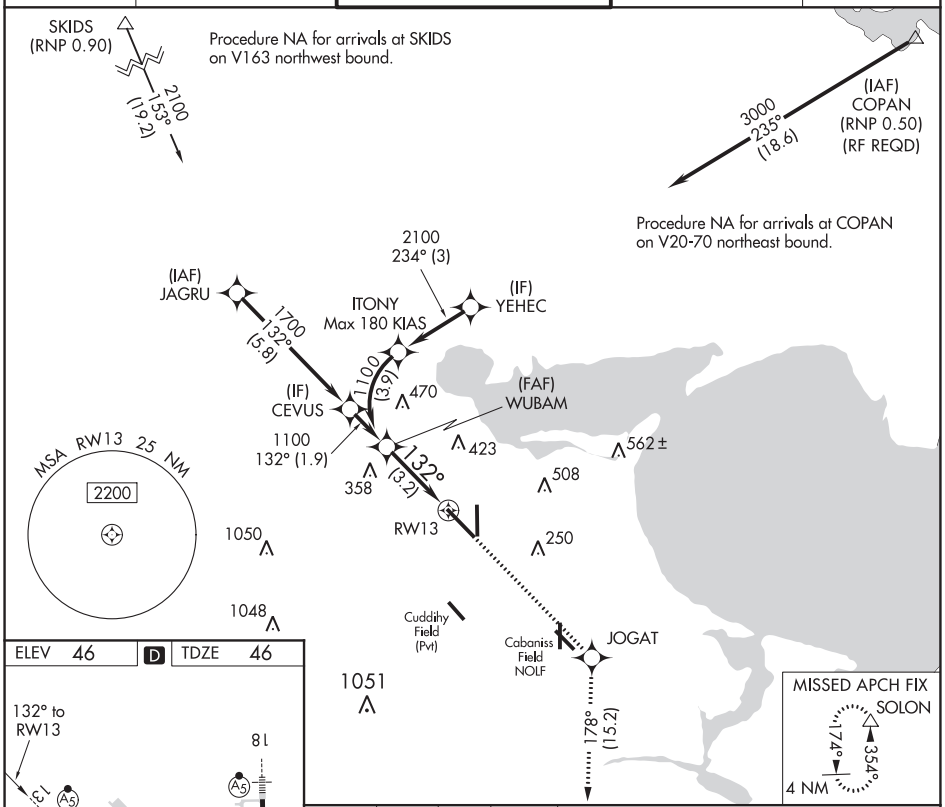
RNAV (RNP) Z RWY 13
CORPUS CHRISTI INTL (CRP)

For uncompensated Baro-VNAV systems, procedure NA below -1°C (31°F) or above 54°C (130°F). GPS required.

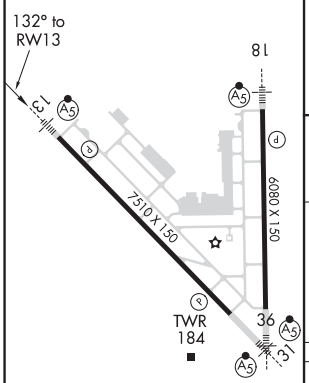
MALSR A5

MISSED APPROACH: Climb to 2000 on track 132° to JOGAT and on track 178° to SOLON and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55



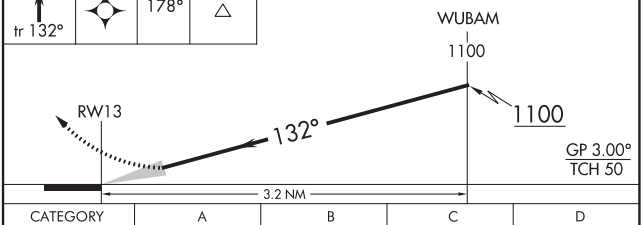
ELEV 46	D	TDZE 46



HIRL Rwys 13-31 and 18-36

2000	JOGAT	tr 178°	SOLON
tr 132°			

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.30 DA	394/30		348 (400-⅝)	

AUTHORIZATION REQUIRED

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SC-3, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	7510
312°	TDZE	43
	Apt Elev	46

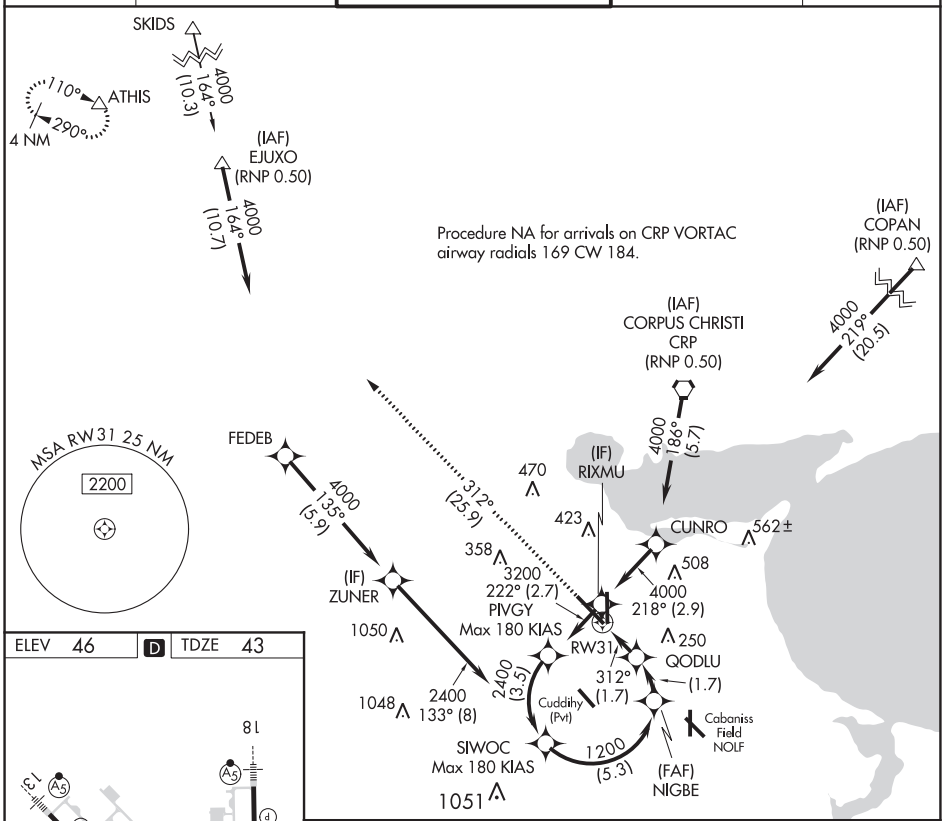
RNAV (RNP) Z RWY 31
CORPUS CHRISTI INTL (CRP)

For uncompensated Baro-VNAV systems, procedure NA below -1°C (31°F) or above 54°C (130°F). GPS and RF required. For inop MALSR, increase RNP 0.14 all Cats visibility to ⅞ mile.
*Missed approach requires minimum climb of 335 feet per NM to 500.

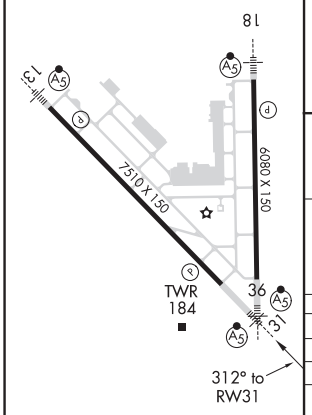
MALSR A5

MISSED APPROACH: Climb to 2000 on track 312° to ATHIS and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55

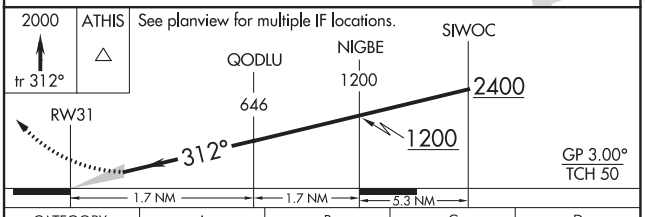


ELEV 46	D	TDZE 43



HIRL Rwys 13-31 and 18-36

2000	ATHIS	See planview for multiple IF locations.
tr 312°	△	



CATEGORY	A	B	C	D
RNP 0.14 DA*	303-½	260 (300-½)		
RNP 0.30 DA	384-⅝	341 (400-⅝)		

AUTHORIZATION REQUIRED

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APP CRS	Rwy ldg	6080
355°	TDZE	40
	Apt Elev	44

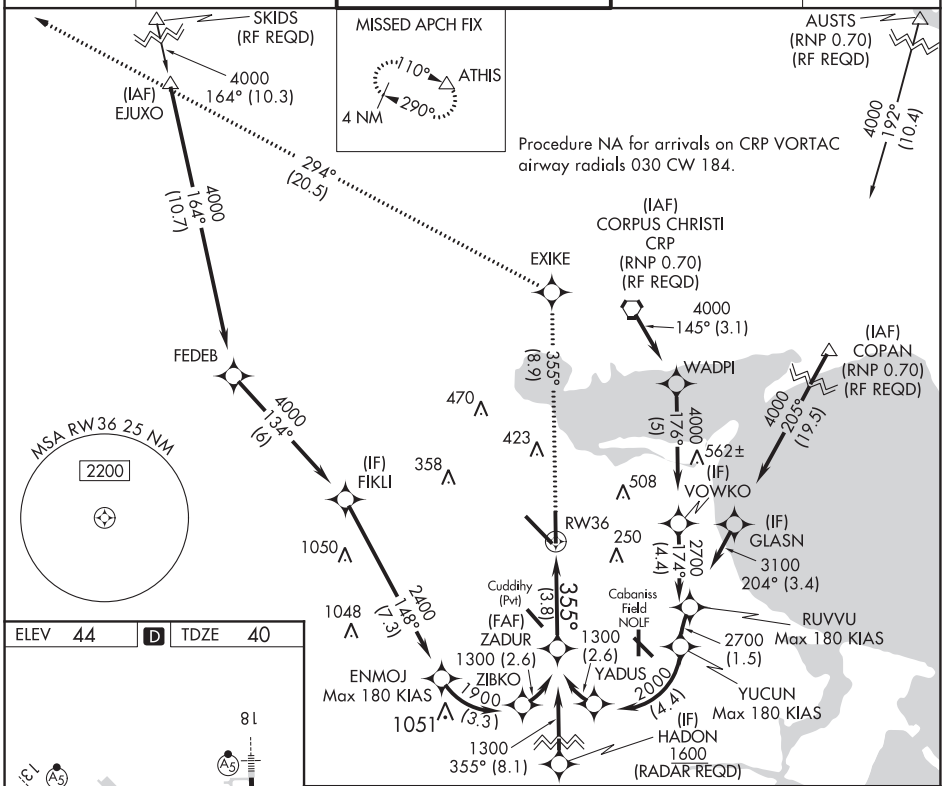
RNAV (RNP) Z RWY 36
CORPUS CHRISTI INTL (CRP)

For uncompensated Baro-VNAV systems, procedure NA below -1°C (-31°F) or above 54°C (130°F). GPS required. For inop MALSR, increase RNP 0.11 visibility all Cats to RVR 4000. For inop MALSR, increase RNP 0.30 visibility all Cats to RVR 5900.

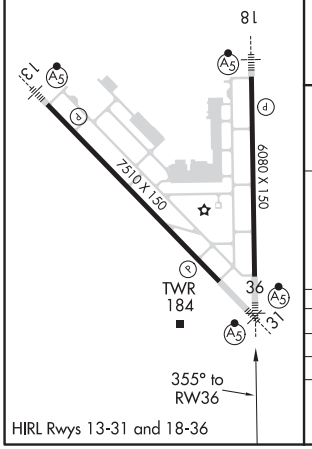
MALSR

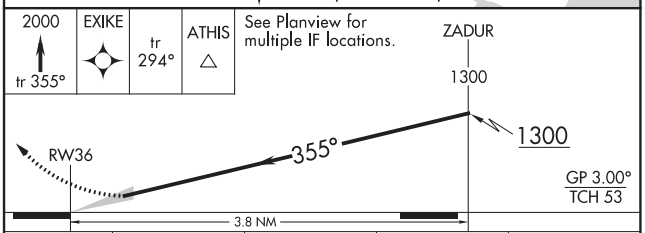
MISSED APPROACH: Climb to 2000 on track 355° to EXIKE and on track 294° to ATHIS and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55



ELEV	44	D	TDZE	40





CATEGORY	A	B	C	D
RNP 0.11 DA	290/24	250 (300-½)		
RNP 0.30 DA	400/34	360 (400-⅝)		

AUTHORIZATION REQUIRED

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WAAS CH 53635 W18A	APP CRS 175°	Rwy ldg 6080 TDZE 42 Apt Elev 46

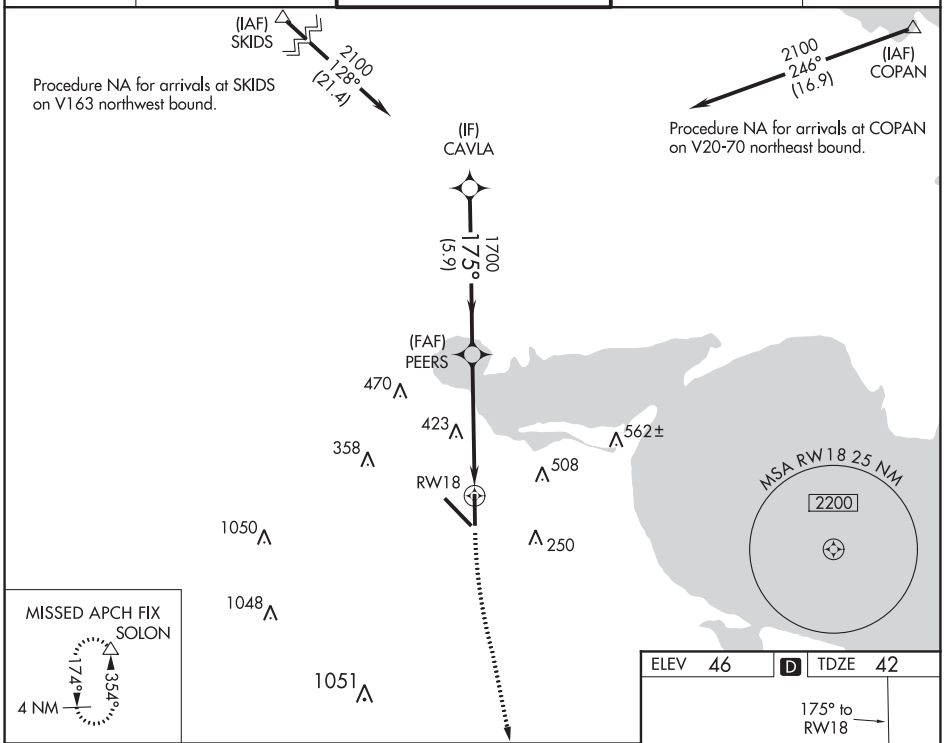
RNAV (GPS) RWY 18
CORPUS CHRISTI INTL (CRP)

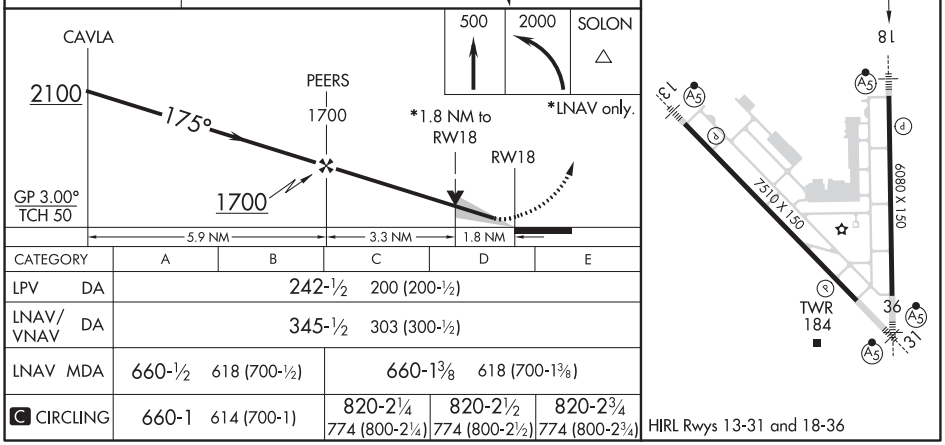
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.
For inop MALSR increase LPV Cat E visibility to ¾ mile, LNAV/VNAV Cat E visibility to 1 mile and LNAV Cat C/D/E visibility to 1¾ mile.

MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct SOLON and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55





CATEGORY	A	B	C	D	E
LPV DA	242-½ 200 (200-½)				
LNAV/VNAV DA	345-½ 303 (300-½)				
LNAV MDA	660-½ 618 (700-½)		660-1⅜ 618 (700-1⅜)		
C CIRCLING	660-1 614 (700-1)		820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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APP CRS	Rwy ldg	7510
312°	TDZE	43
	Apt Elev	46

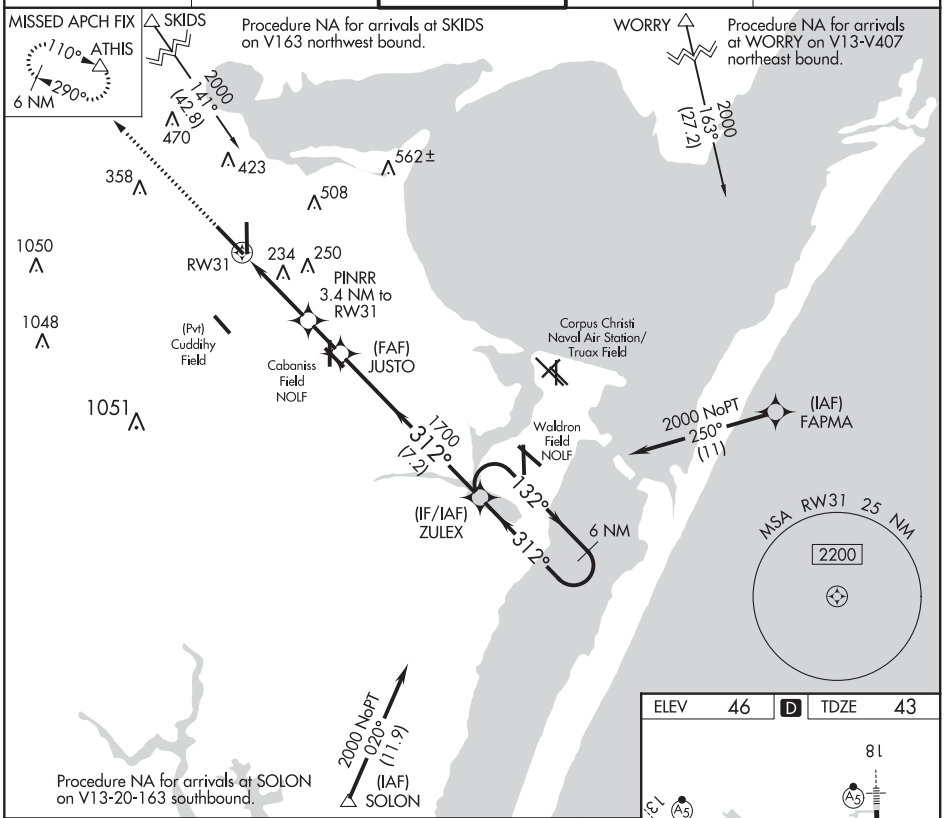
RNAV (GPS) X RWY 31
CORPUS CHRISTI INTL (CRP)

DME/DME RNP-0.3 NA.
For inop MALSR, increase LNAV Cat E visibility to 1⅜ mile.

MALSR A5

MISSED APPROACH: Climb to 2000 direct ATHIS and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55



CATEGORY	A	B	C	D	E
LNAV MDA	500-½ 457 (500-½)		500-⅞ 457 (500-⅞)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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CORPUS CHRISTI, TEXAS | AL-5032 (FAA) | 20086

WAAS CH 97515 W13A	APP CRS 132°	Rwy ldg 7510 TDZE 46 Apt Elev 46

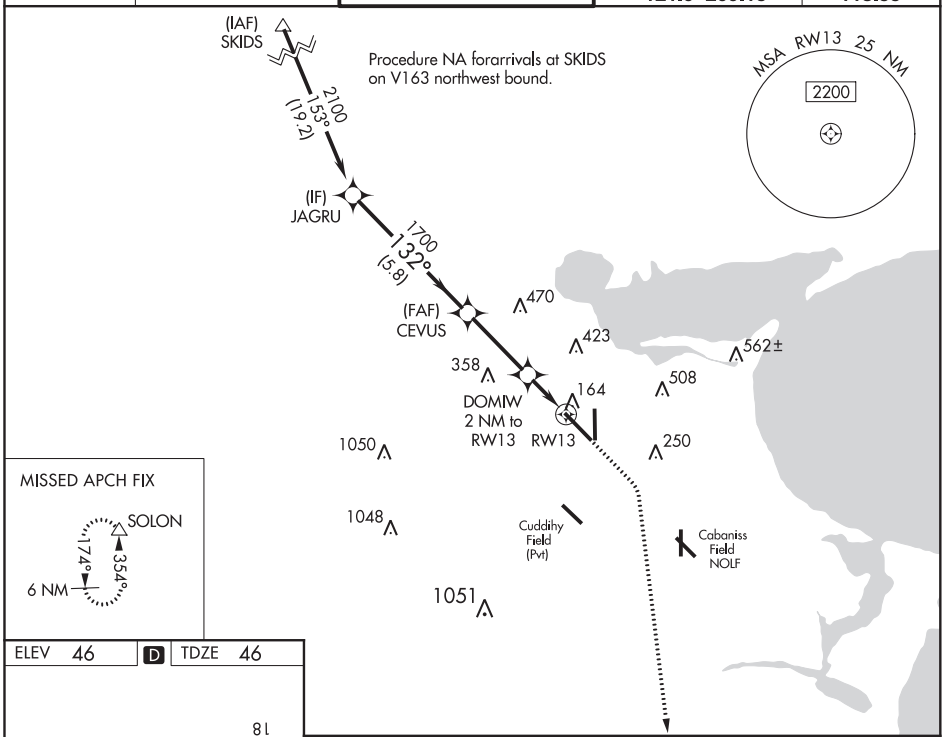
RNAV (GPS) Y RWY 13
CORPUS CHRISTI INTL (CRP)

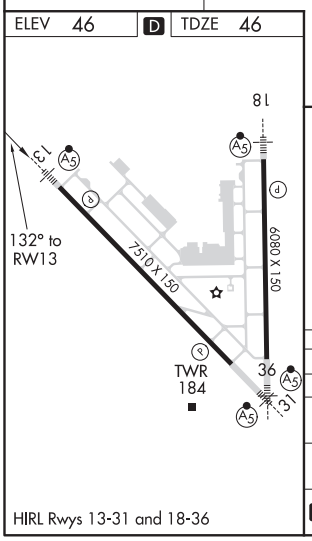
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. For inop MALSR increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to RVR 4500, and LNAV Cats C/D/E visibility to RVR 5500. **RVR 1800 authorized with use of FD or AP or HUD to DA.

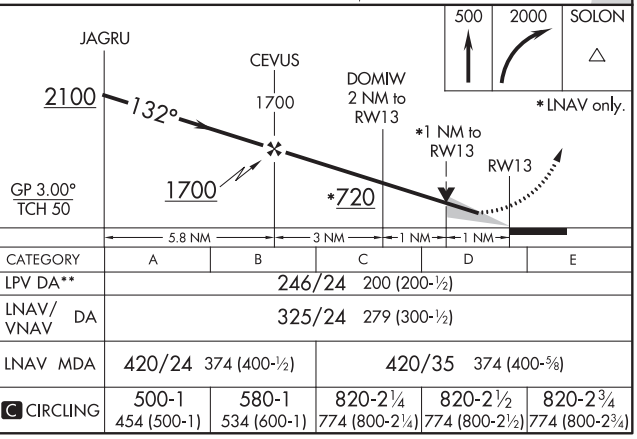
MALSR

MISSED APPROACH: Climb to 500 then climbing right turn to 2000 direct SOLON and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55







CATEGORY	A	B	C	D	E
LPV DA**	246/24 200 (200-½)				
LNAV/VNAV DA	325/24 279 (300-½)				
LNAV MDA	420/24 374 (400-½)		420/35 374 (400-⅝)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

CORPUS CHRISTI, TEXAS
Amdt 2A 17AUG17

27°46'N-97°30'W

CORPUS CHRISTI INTL (CRP)
RNAV (GPS) Y RWY 13

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 60914 W31A	APP CRS 312°	Rwy ldg 7510 TDZE 43 Apt Elev 46

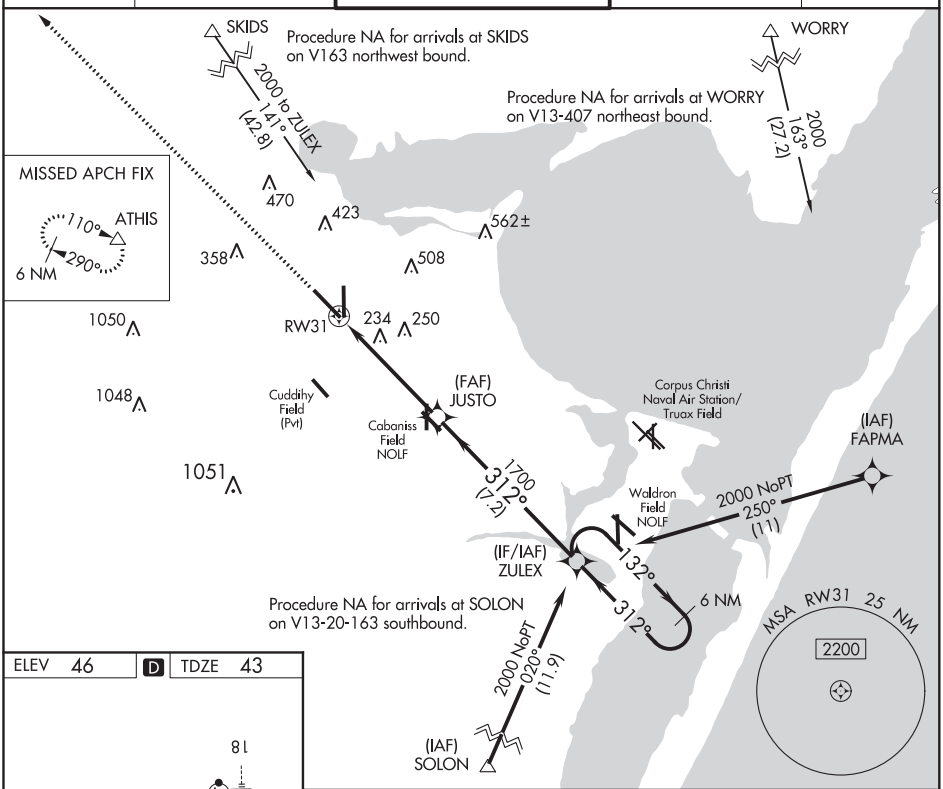
RNAV (GPS) Y RWY 31
CORPUS CHRISTI INTL (CRP)

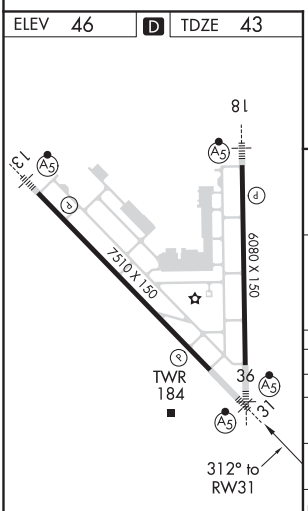
Procedure NA when Cabaniss Field traffic patterns active. DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C (31°F) or above 54°C (130°F). For inop MALSR, increase LPV Cat E visibility to ¾ mile, LNAV/VNAV all Cats visibility to 1 mile, and LNAV Cat E visibility to 1⅜ mile.

MALSR A5

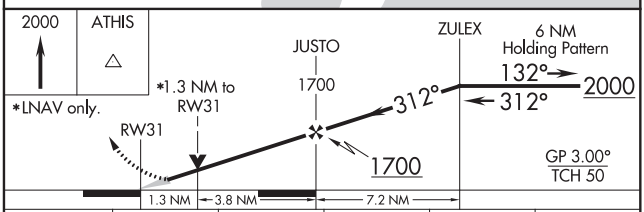
MISSED APPROACH: Climb to 2000 direct ATHIS and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55





HIRL Rwys 13-31 and 18-36



CATEGORY	A	B	C	D	E
LPV DA	243-½ 200 (200-½)				
LNAV/VNAV DA	356-⅝ 313 (400-⅝)				
LNAV MDA	500-½ 457 (500-½)		500-⅞ 457 (500-⅞)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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CORPUS CHRISTI, TEXAS | AL-5032 (FAA) | 20086

RNAV (GPS) Y RWY 36
CORPUS CHRISTI INTL (CRP)

WAAS CH 69617 W36A	APP CRS 355°	Rwy ldg 6080 TDZE 40 Apt Elev 46

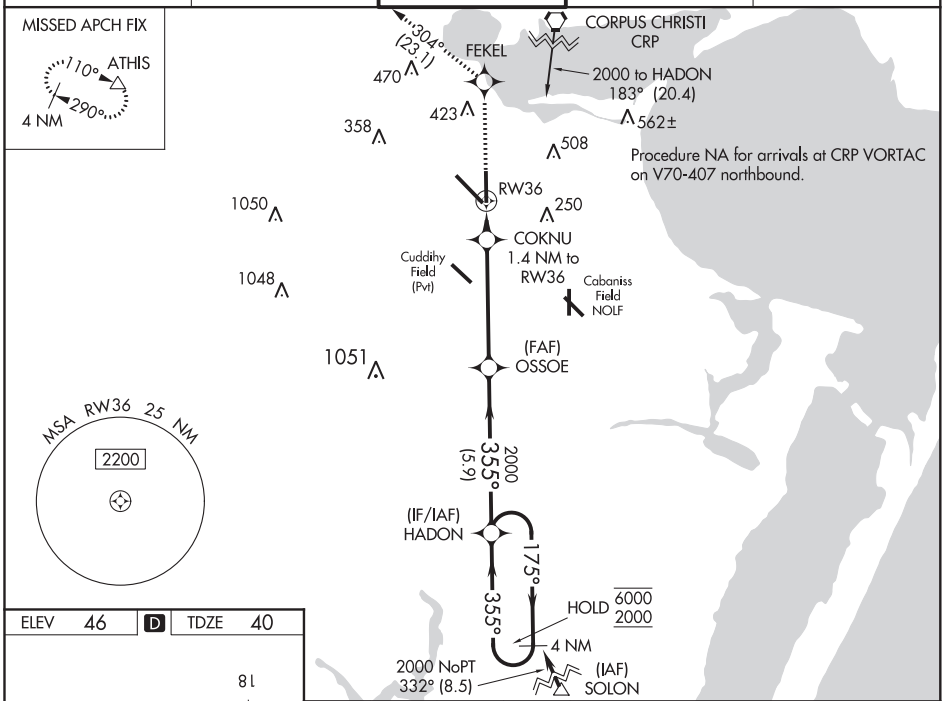
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1°C or above 54°C. For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to RVR 4500 and LNAV Cat E visibility to RVR 6000.
RVR 1800 authorized with use of FD or AP or HUD to DA.

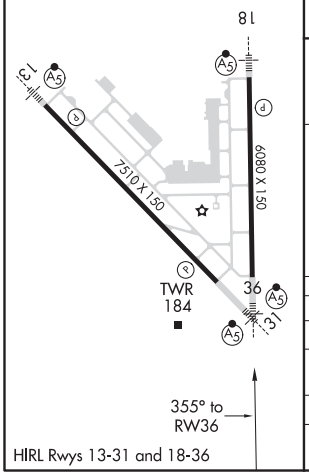
MALSR

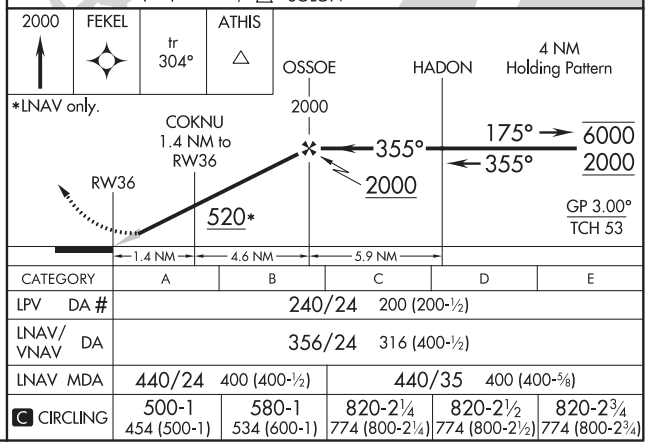
MISSED APPROACH: Climb to 2000 direct FEKEL and on track 304° to ATHIS and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55



ELEV 46 | D | TDZE 40





CATEGORY	A	B	C	D	E
LPV DA #	240/24 200 (200-½)				
LNAV/VNAV DA	356/24 316 (400-½)				
LNAV MDA	440/24 400 (400-½)		440/35 400 (400-⅝)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

CORPUS CHRISTI, TEXAS | CORPUS CHRISTI INTL (CRP)

Amdt 3 03JAN19 | 27°46'N-97°30'W | RNAV (GPS) Y RWY 36

SC-3, 25 FEB 2021 to 22 APR 2021

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LOC/DME I-EKI 110.3 Chan 40	APP CRS 312°	Rwy ldg 7510 TDZE 43 Apt Elev 46

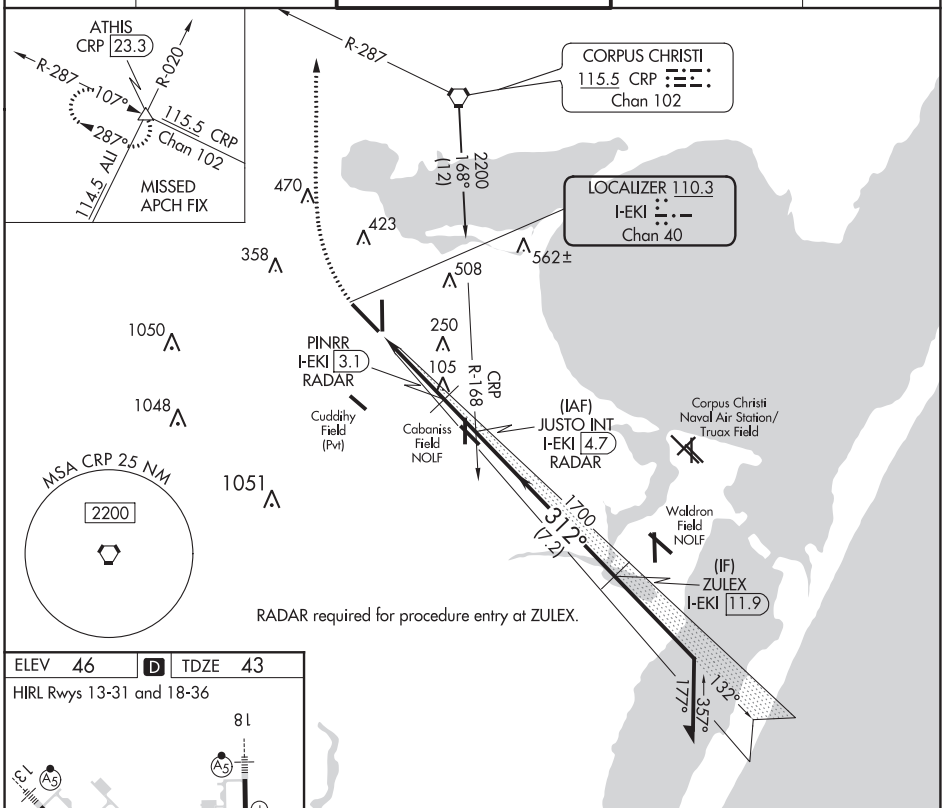
LOC RWY 31
CORPUS CHRISTI INTL (CRP)

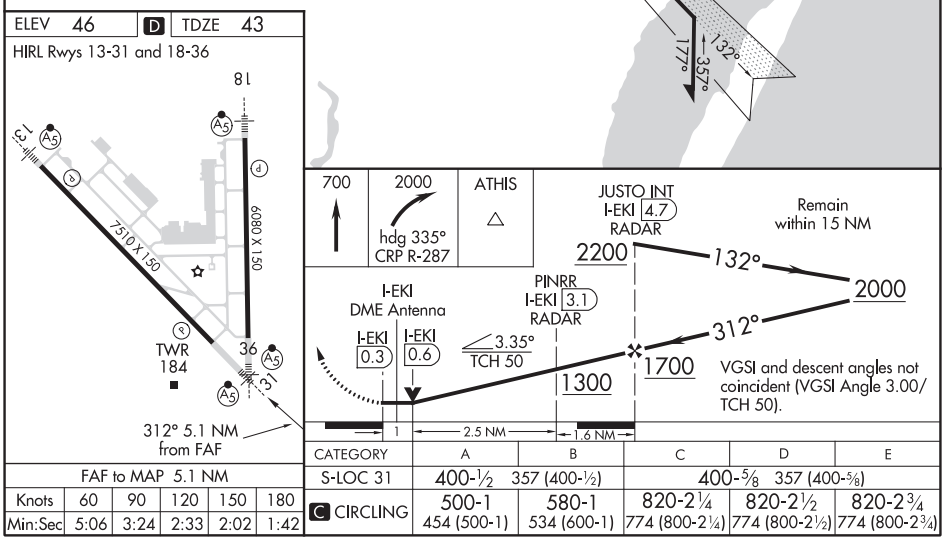
DME or RADAR required. For inop MALSR, increase S-LOC 31 Cats C/D/E visibility to 1 mile.

MALSR

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 on heading 335° and CRP VORTAC R-287 to ATHIS INT/CRP VORTAC 23.3 DME and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55





FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

CATEGORY	A	B	C	D	E
S-LOC 31	400-½ 357 (400-½)		400-⅝ 357 (400-⅝)		
C CIRCLING	500-1 454 (500-1)	580-1 534 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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CORPUS CHRISTI, TEXAS | AL-5032 (FAA) | 20086

VOR or TACAN RWY 18
CORPUS CHRISTI INTL (CRP)

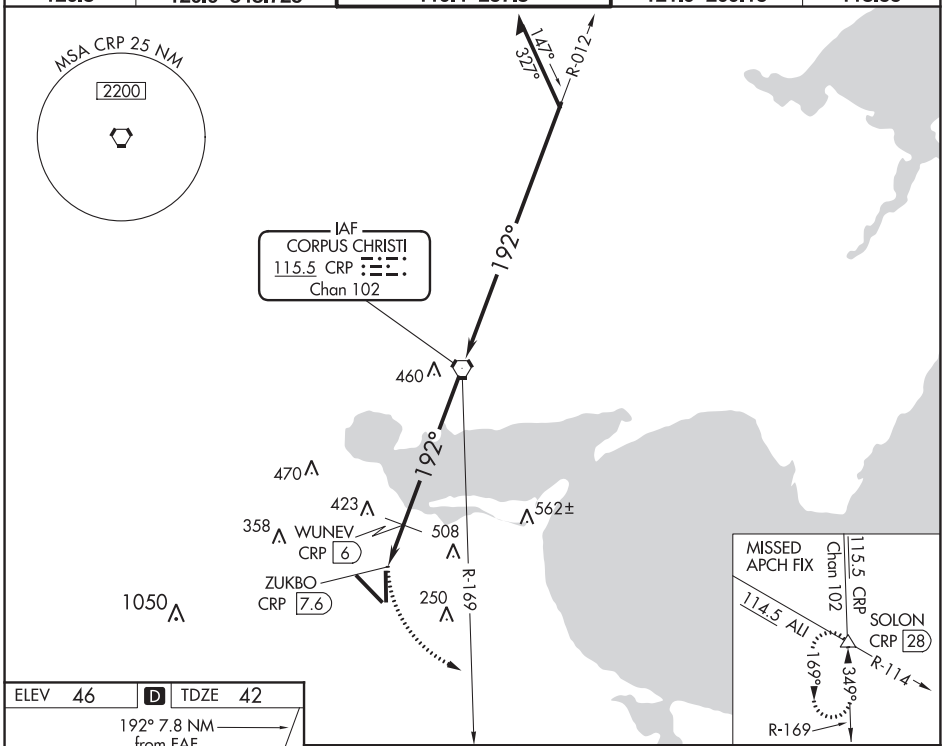
VORTAC CRP	APP CRS	Rwy ldg	6080
115.5	192°	TDZE	42
Chan 102		Apt Elev	46

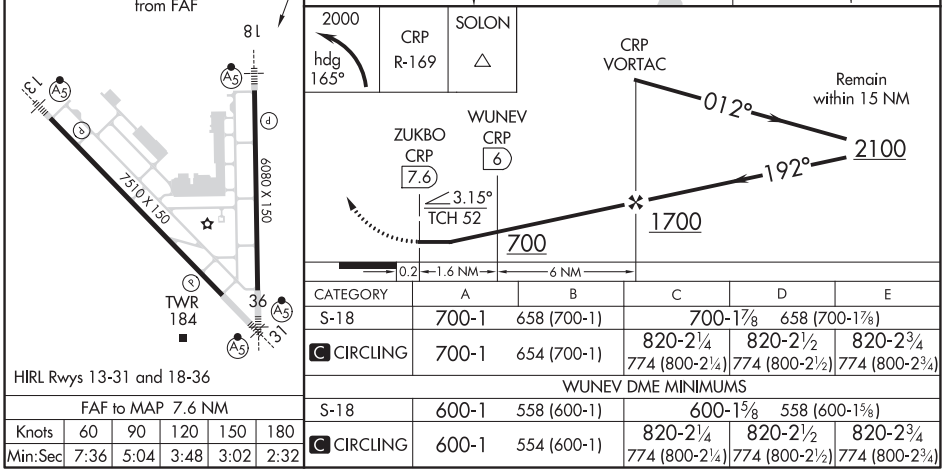
Rwy 18 helicopter visibility reduction below ¾ SM NA.
Inop table does not apply.

MALSR

MISSED APPROACH: Climbing left turn to 2000 on heading 165° and on CRP VORTAC R-169 to SOLON INT/CRP 28 DME and hold.

ATIS	CORPUS APP CON	CORPUS TOWER	GND CON	CLNC DEL
126.8	120.9 348.725	119.4 257.8	121.9 269.15	118.55





FAF to MAP 7.6 NM					
Knots	60	90	120	150	180
Min:Sec	7:36	5:04	3:48	3:02	2:32

CATEGORY	A	B	C	D	E
S-18	700-1	658 (700-1)	700-1⅞ 658 (700-1⅞)		
C CIRCLING	700-1	654 (700-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)
WUNEV DME MINIMUMS					
S-18	600-1	558 (600-1)	600-1⅝ 558 (600-1⅝)		
C CIRCLING	600-1	554 (600-1)	820-2¼ 774 (800-2¼)	820-2½ 774 (800-2½)	820-2¾ 774 (800-2¾)

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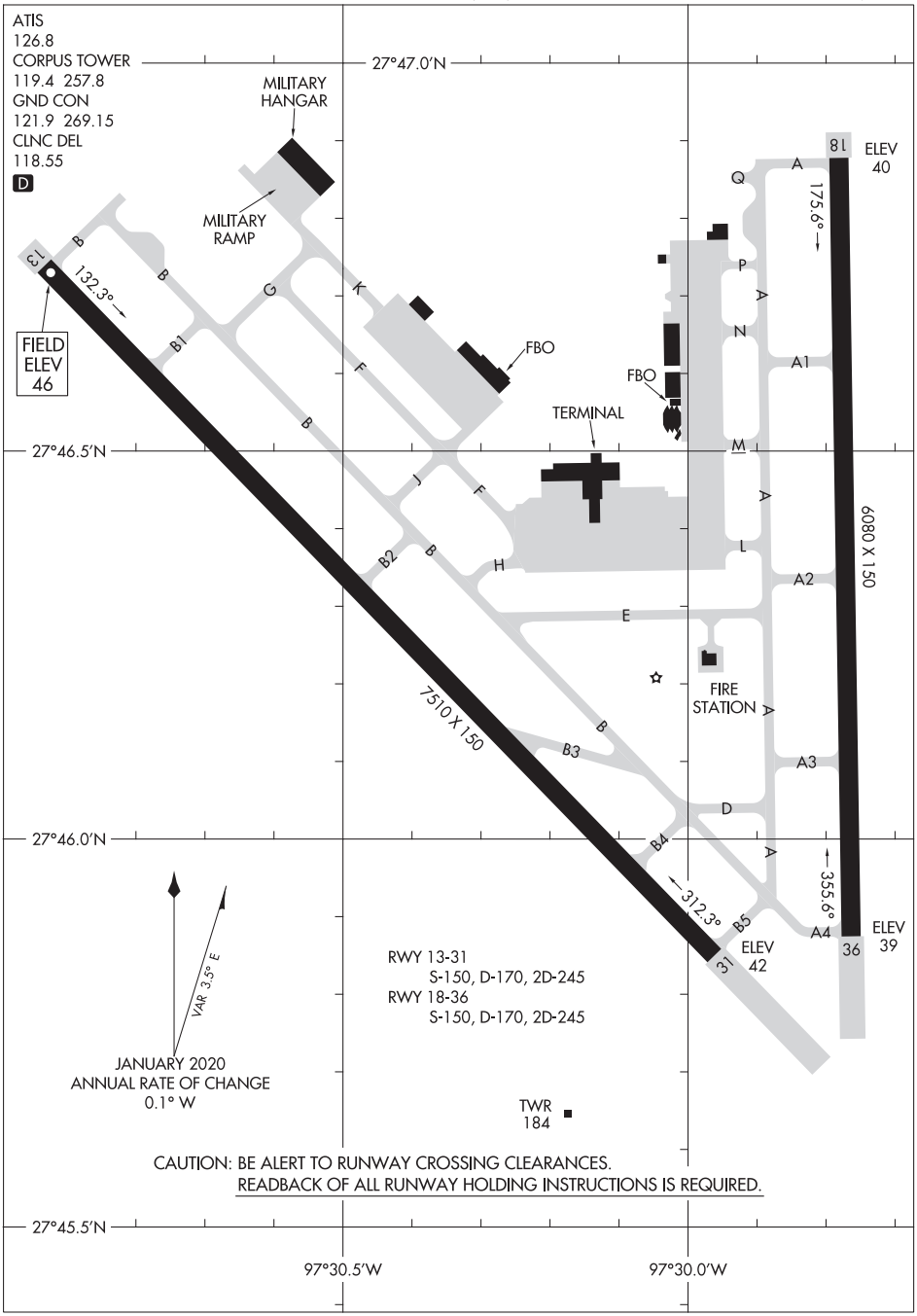

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CORPUS CHRISTI, TEXAS

ILS Z or LOC/DME RWY 13R

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

LOC I-NGP	APCH CRS	Rwy ldg / TDZE / Arpt Elev
111.3	132°	8002 / 13 / 19

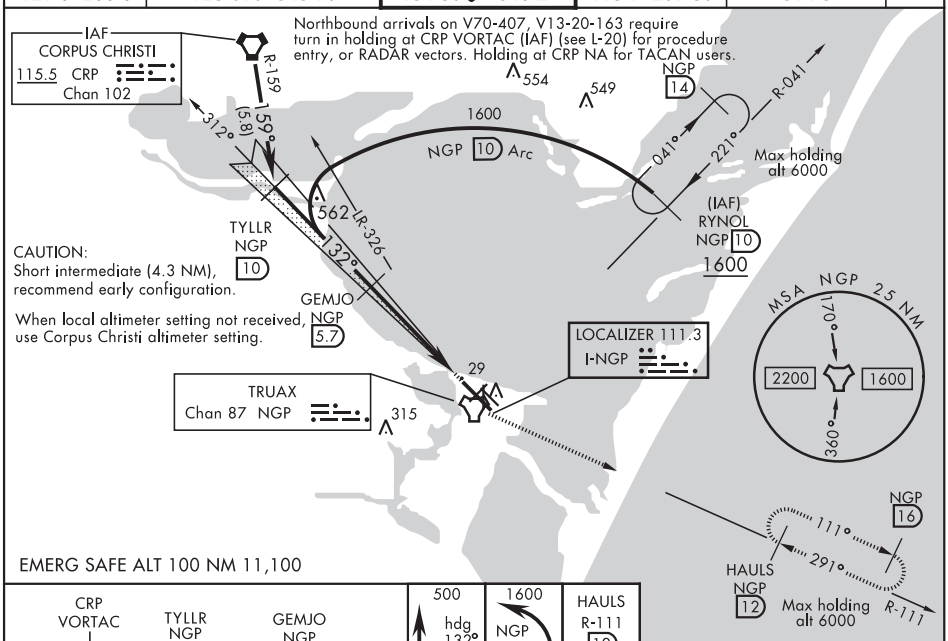
DME Required.

* When ALS inop, increase vis to 1 mile.
** When ALS inop, increase CAT AB vis to 1 mile, CAT CD to 1⅛ miles.

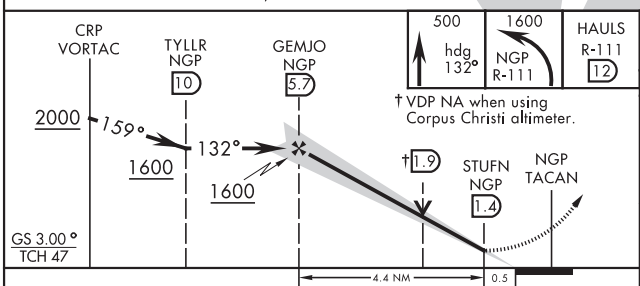
SALSF

MISSED APPROACH: Climb to 500 hdg 132°, then climbing left turn to 1600 and intercept NGP TACAN R-111 to HAULS and hold.

ATIS*	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER*	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	



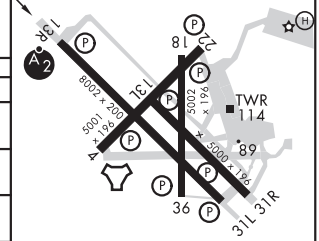
EMERG SAFE ALT 100 NM 11,100



CATEGORY	A	B	C	D
S-ILS 13R	213-¾ 200 (200-¾)			
S-LOC/DME 13R*	380-¾ 367 (400-¾)			
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-ILS 13R	245-¾ 232 (300-¾)			
S-LOC/DME 13R**	420-¾ 407 (500-¾)		420-1 407 (500-1)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

ELEV 19 TDZE 13

132° 4.9 NM from FAF



HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

CORPUS CHRISTI, TEXAS

ILS Y or RNAV (GPS) RWY 13R

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

LOC I-NGP	APCH CRS	Rwy ldg / TDZE / Arpt Elev
111.3	132°	8002 / 13 / 19

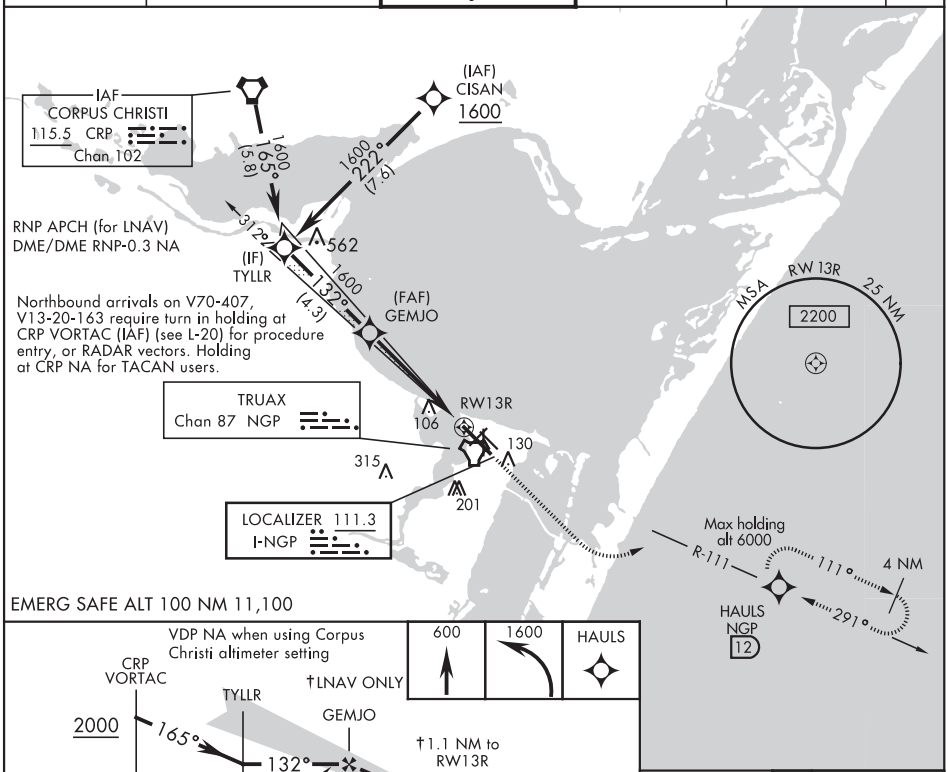
RNP APCH - DME/DME RNP 0.3 NA for LNAV.
RNAV1 - GPS for ILS.

T *When ALS inop, increase CAT AB vis to 1 mile; CAT CD vis to 1⅛ miles. When local altimeter setting not received, use Corpus Christi altimeter setting.

SALSF

MISSED APPROACH: Climb to 600, then climbing left turn to 1600 direct HAULS and hold.

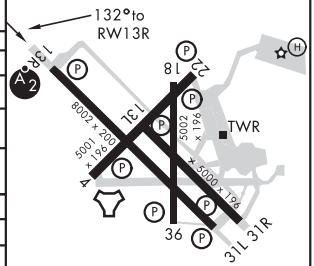
ATIS★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 L 340.2	118.7 257.85	314.3	



EMERG SAFE ALT 100 NM 11,100

CATEGORY	A	B	C	D
S-ILS 13R	213-¾ 200 (200-¾)			
LNAV MDA*	400-¾ 387 (400-¾)		400-⅞ 387 (400-⅞)	
C CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-ILS 13R	242-¾ 232 (300-¾)			
LNAV MDA*	420-¾ 407 (500-¾)		420-1 407 (500-1)	
C CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

ELEV 19 TDZE 13



HIRL Rwy 4-22, 13R-31L L
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

SC-3, 25 FEB 2021 to 22 APR 2021
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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 4

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

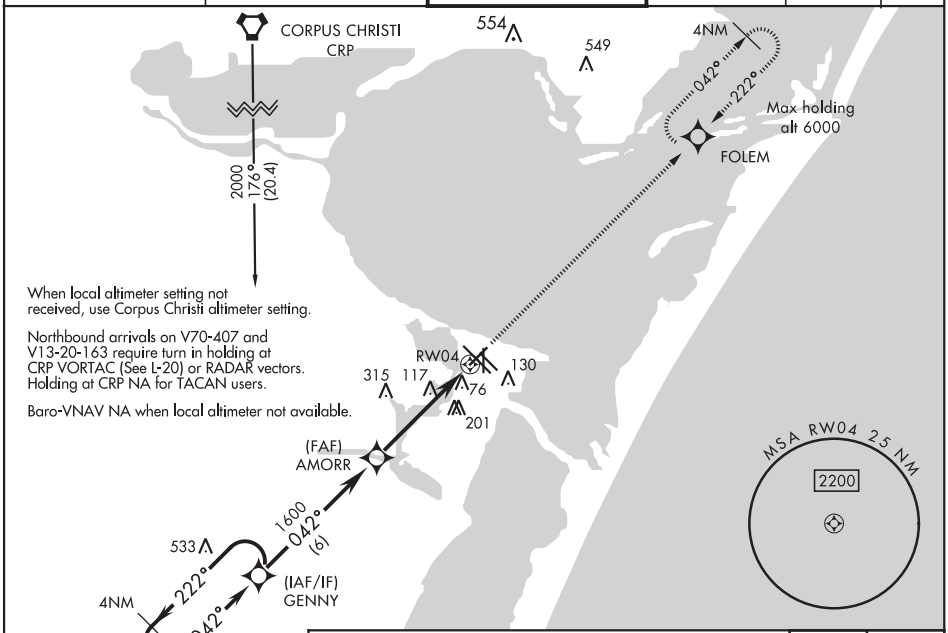
APCH CRS	Rwy ldg	5001
042°	TDZE	17
	Arpt Elev	19

RNP APCH - DME/DME RNP 0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 42°C (108°F)

MISSED APPROACH: Climb to 2000 direct FOLEM and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 L 340.2	118.7 257.85	314.3	

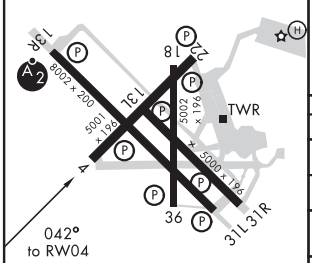


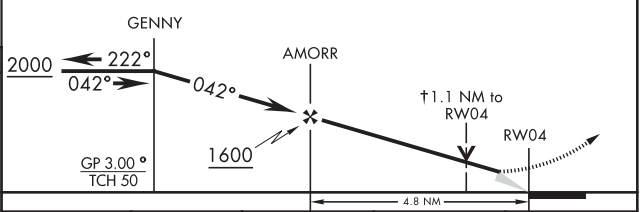
† LNAV only
VDP NA when using Corpus Christi altimeter setting.

2000 | FOLEM

EMERG SAFE ALT 100 NM 11,100

ELEV 19	TDZE 17





CATEGORY	A	B	C	D
LNAV/VNAV DA	268-¾ 251 (300-¾)			
LNAV MDA	420-1 403 (500-1)		420-1⅛ 403 (500-1⅛)	
C CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	440-1 423 (500-1)		440-1¼ 423 (500-1¼)	
C CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L L
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 13L

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

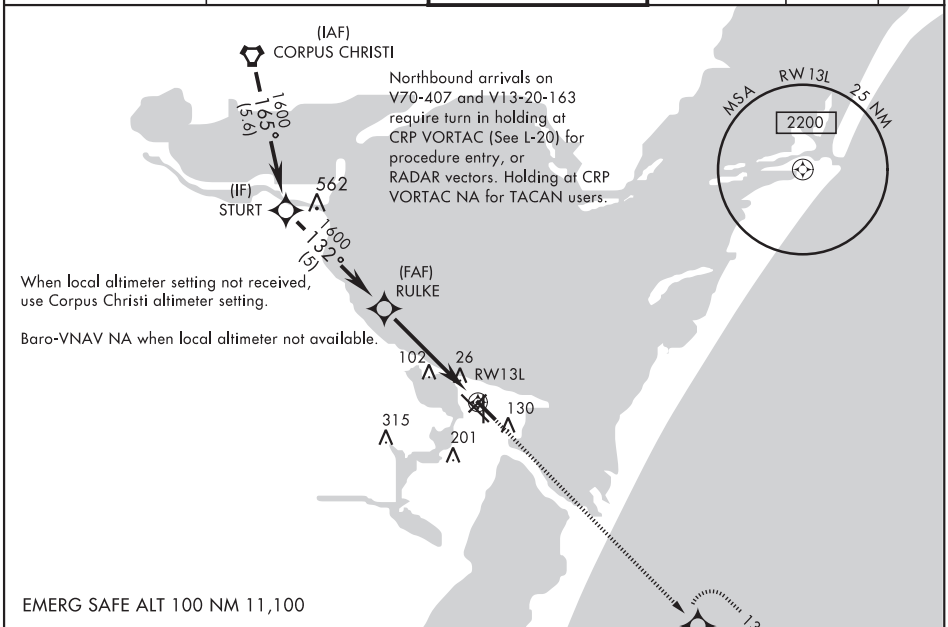
APCH CRS	Rwy ldg	5000
132°	TDZE	19
	Arpt Elev	19

RNP APCH - DME/DME RNP-0.3 NA.

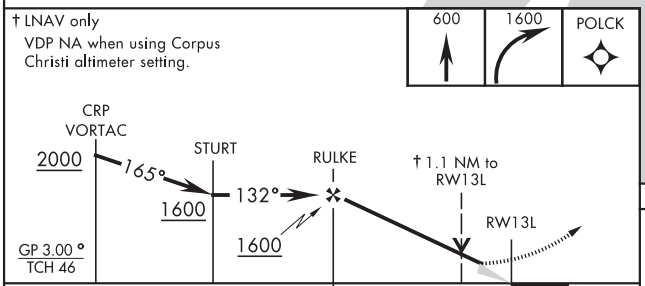
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

MISSED APPROACH: Climb to 600, then climbing right turn to 1600 direct POLCK and hold.

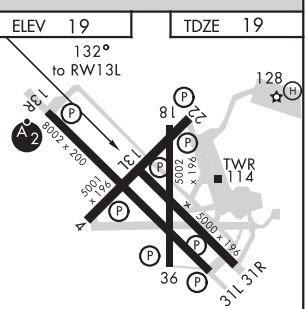
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	



† LNAV only
VDP NA when using Corpus Christi altimeter setting.



CATEGORY	A	B	C	D
LNAV/VNAV DA	269-¾ 250 (300-¾)			
LNAV MDA	400-1 381 (400-1)		400-1⅛ 381 (400-1⅛)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	420-1 401 (500-1)		420-1⅛ 401 (500-1⅛)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)



HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

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RNAV (GPS) RWY 13L

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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 18

APCH CRS	Rwy ldg	5002
177°	TDZE	19
	Arpt Elev	19

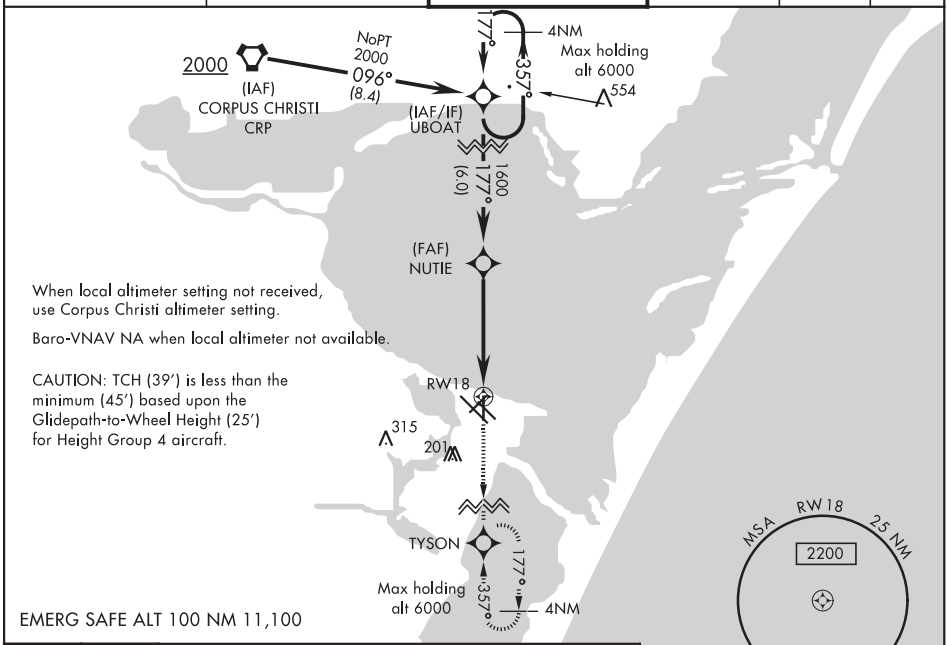
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

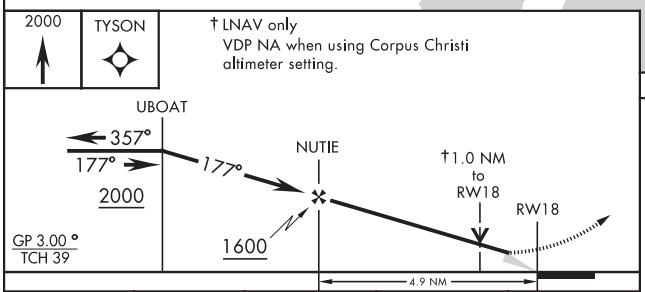
RNP APCH - DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

MISSED APPROACH: Climb to 2000 direct TYSON and hold.

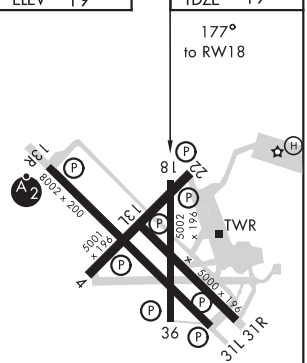
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





CATEGORY	A	B	C	D
LNAV/VNAV DA	269-¾ 250 (300-¾)			276-¾ 257 (300-¾)
LNAV MDA	380-1 361 (400-1)			
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	400-1 381 (400-1)		400-1⅛ 381 (400-1⅛)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

ELEV 19 TDZE 19



HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

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RNAV (GPS) RWY 18

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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 22

APCH CRS	Rwy ldg	5001
222°	TDZE	15
	Arpt Elev	19

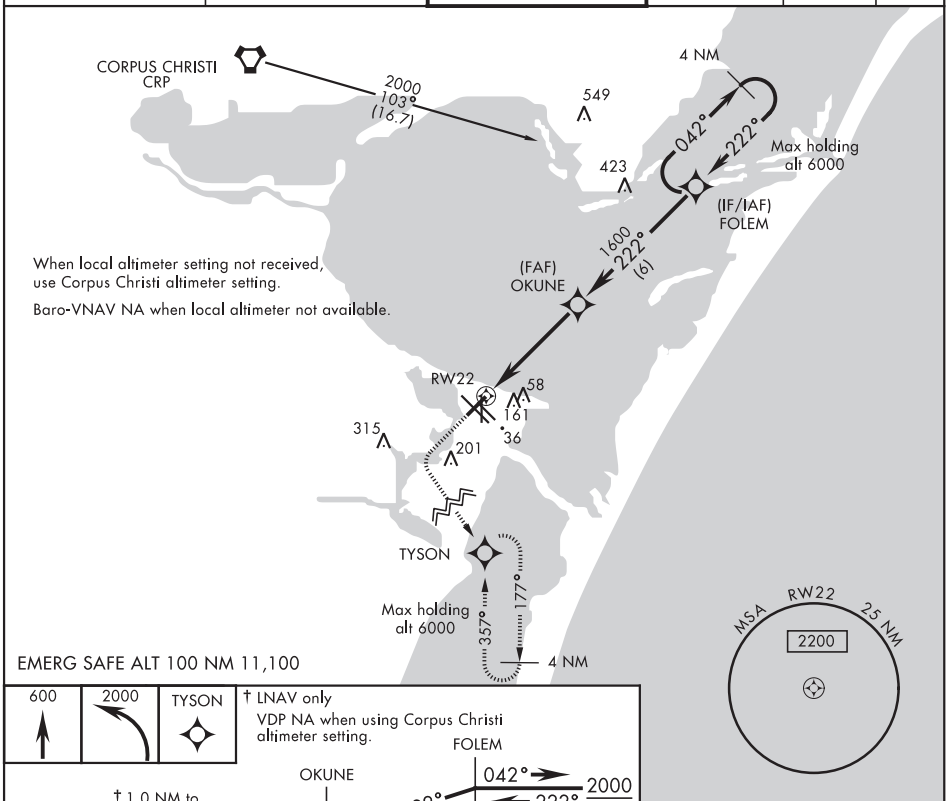
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

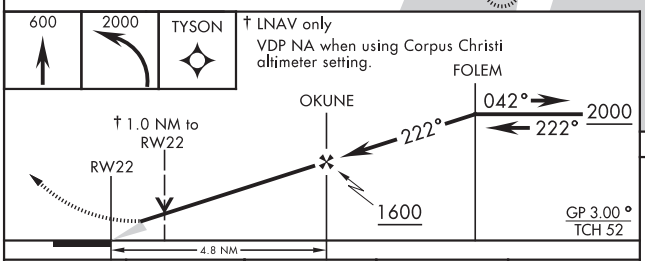
RNP APCH - DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

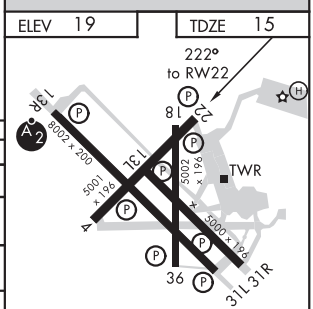
MISSED APPROACH: Climb to 600, then climbing left turn to 2000 direct TYSON and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





ELEV 19	TDZE 15



CATEGORY	A	B	C	D
LNAV MDA	380-1 365 (400-1)			
LNAV/VNAV DA	290-7/8 275 (300-7/8)	301-7/8 286 (300-7/8)	309-7/8 294 (300-7/8)	320-7/8 305 (400-7/8)
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	400-1 385 (400-1)		400-1⅛ 385 (400-1⅛)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

Amdt 1 16JUL20

RNAV (GPS) RWY 22

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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 31L

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

APCH CRS	Rwy ldg	8002
312°	TDZE	18
	Arpt Elev	19

RNP APCH - DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

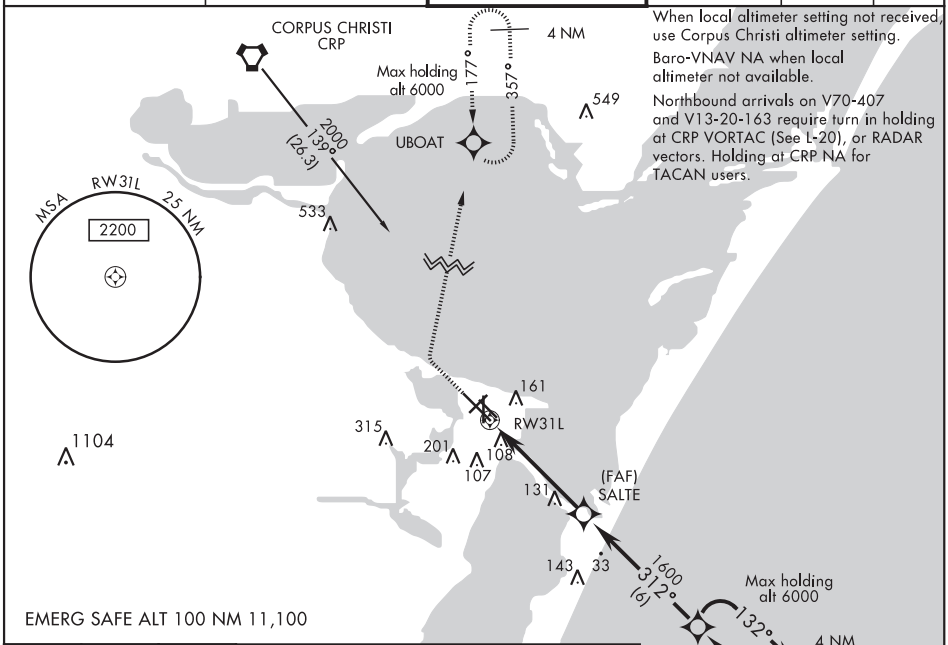
MISSED APPROACH: Climb to 600, then climbing right turn to 2000 direct UBOAT and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	

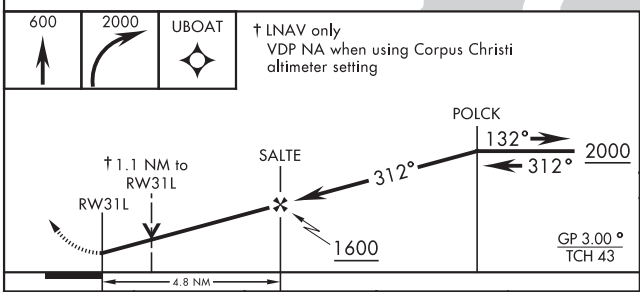
When local altimeter setting not received, use Corpus Christi altimeter setting.

Baro-VNAV NA when local altimeter not available.

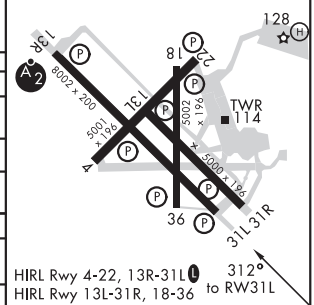
Northbound arrivals on V70-407 and V13-20-163 require turn in holding at CRP VORTAC (See L-20), or RADAR vectors. Holding at CRP NA for TACAN users.



EMERG SAFE ALT 100 NM 11,100



ELEV 19 TDZE 18



HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

312° to RW31L

CATEGORY	A	B	C	D
LNAV/VNAV DA	413-1⅛ 395 (400-1⅛)			
LNAV MDA	420-1 402 (500-1)		420-1⅛ 402 (500-1⅛)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	460-1 442 (500-1)		460-1⅜ 442 (500-1⅜)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

SC-3, 25 FEB 2021 to 22 APR 2021
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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 31R

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

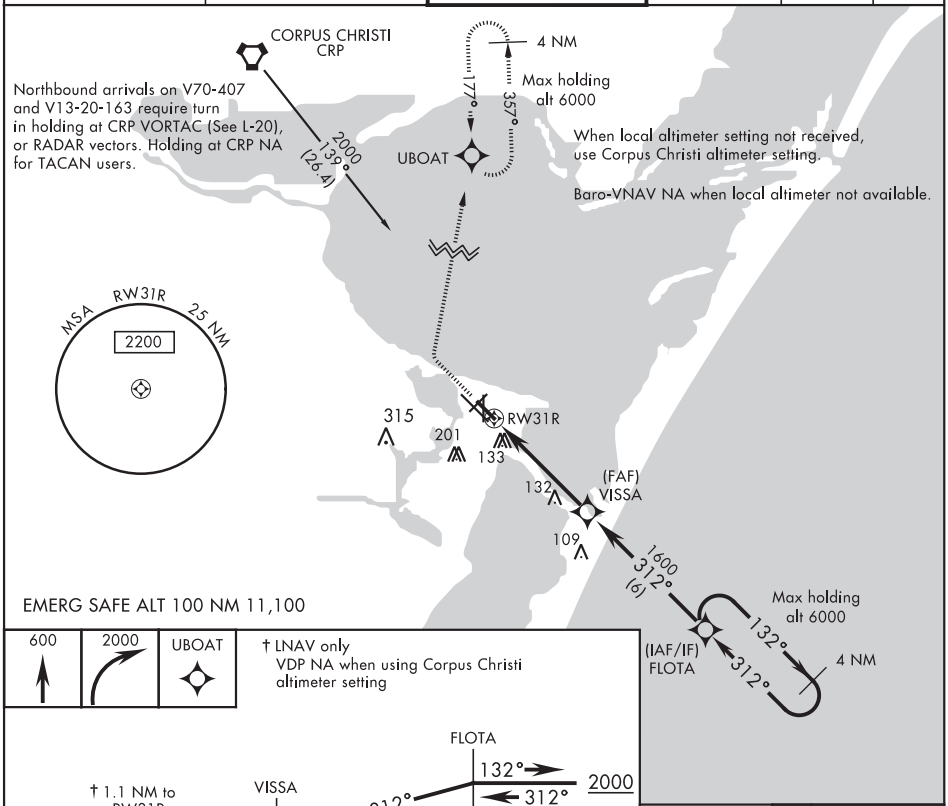
APCH CRS	Rwy ldg	5000
312°	TDZE	19
	Arpt Elev	19

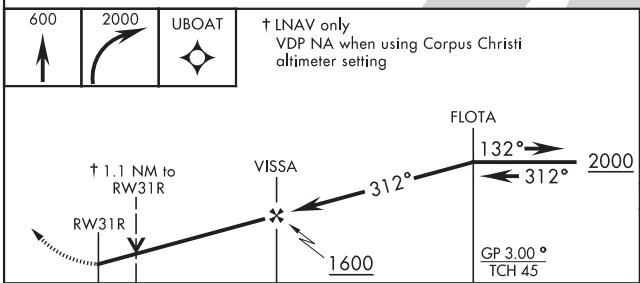
RNP APCH - DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

MISSED APPROACH: Climb to 600, then climbing right turn to 2000 direct UBOAT and hold.

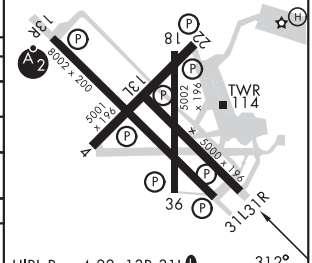
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





CATEGORY	A	B	C	D
LNAV/VNAV DA	412-1⅛ 393 (400-1⅛)			
LNAV MDA	420-1 401 (500-1)		420-1⅛ 401 (500-1⅛)	
C CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	460-1 441 (500-1)		460-1⅜ 441 (500-1⅜)	
C CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

ELEV 19 TDZE 19



HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

CORPUS CHRISTI, TEXAS 27°42'N-97°17'W CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

Amdt 1 16JUL20

RNAV (GPS) RWY 31R

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CORPUS CHRISTI, TEXAS

RNAV (GPS) RWY 36

APCH CRS	Rwy ldg	5002
357°	TDZE	19
	Arpt Elev	19

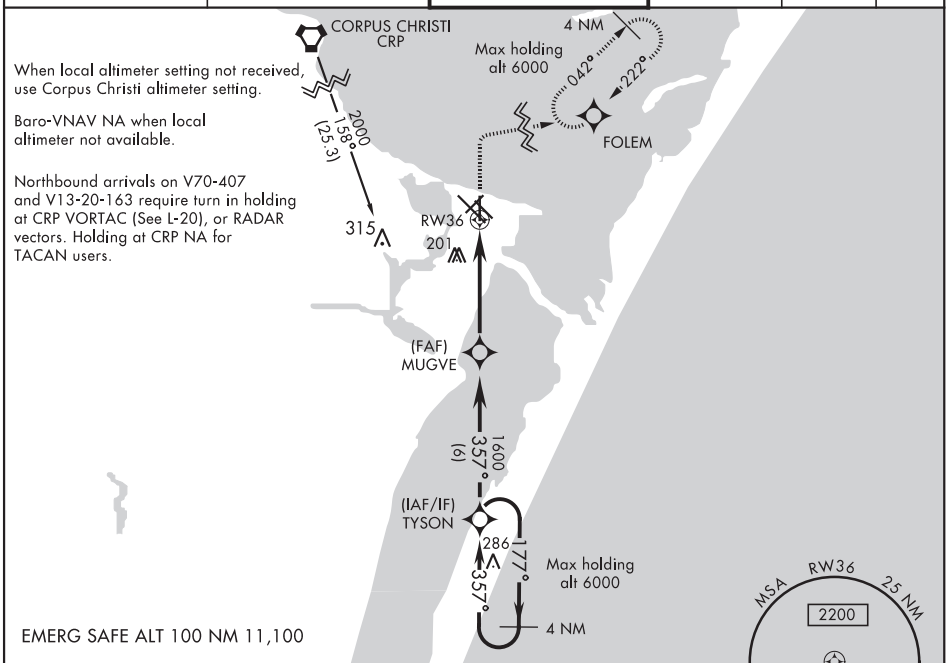
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

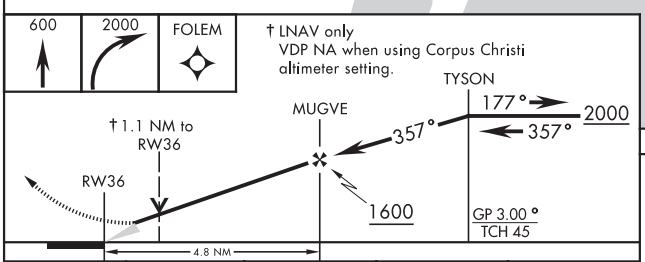
RNP APCH - DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15° C (5° F) or above 54° C (129° F).

MISSED APPROACH: Climb to 600, then climbing right turn to 2000 direct FOLEM and hold.

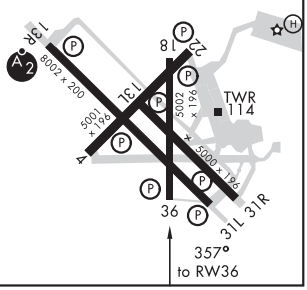
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





ELEV 19 | TDZE 19

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L



CATEGORY	A	B	C	D
LNAV MDA	420-1 401 (500-1)		420-1⅛ 401 (500-1⅛)	
LNAV/VNAV DA	420-1⅛ 401 (500-1⅛)			
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
LNAV MDA	460-1 441 (500-1)		460-1⅜ 441 (500-1⅜)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

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CORPUS CHRISTI, TEXAS

VOR/DME or TACAN Y RWY 13R

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

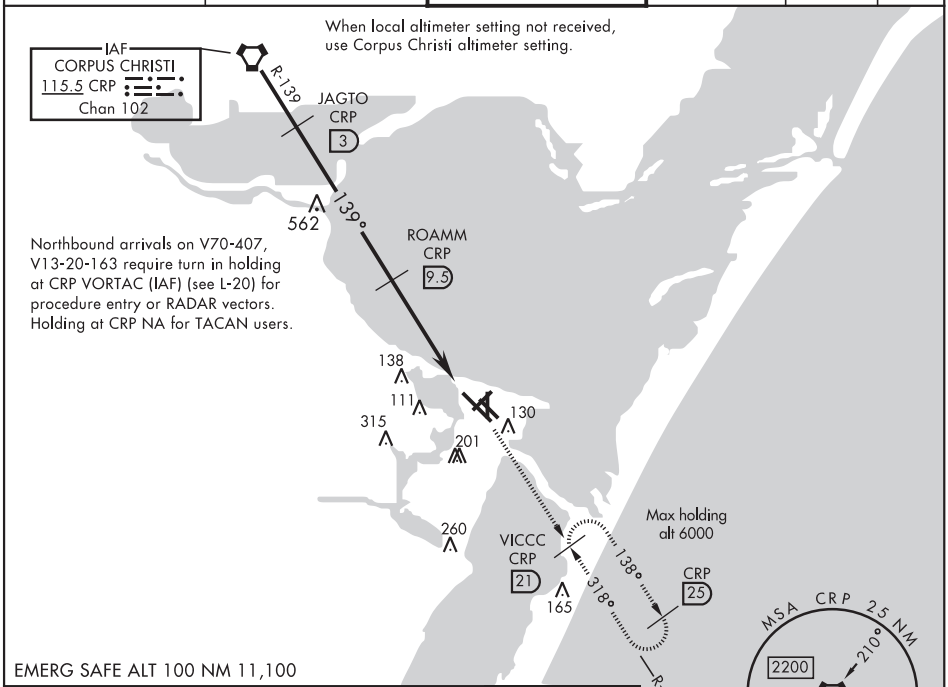
VORTAC CRP	APCH CRS	Rwy ldg	8002
115.5	139°	TDZE	13
Chan 102		Arpt Elev	19

* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅛ miles.
** When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅜ miles.

SALSF

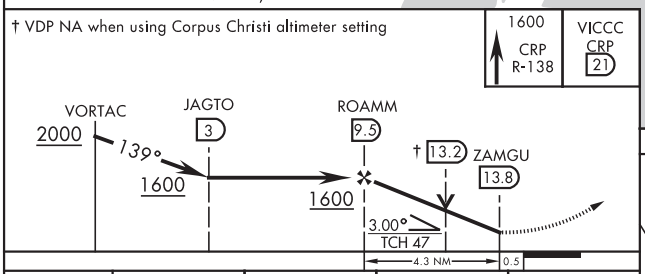
MISSED APPROACH: Climb to 1600 on CRP VORTAC R-138 to VICCC and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 340.2	118.7 257.85	314.3	



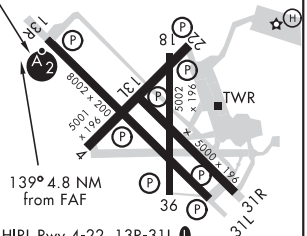
EMERG SAFE ALT 100 NM 11,100

† VDP NA when using Corpus Christi altimeter setting



CATEGORY	A	B	C	D
S-13R *	420-¾ 407 (500-¾)		420-1 407 (500-1)	
C CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-13R **	460-¾ 447 (500-¾)		460-1 447 (500-1)	
C CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

ELEV 19 TDZE 13



HIRL Rwy 4-22, 13R-31L
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

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CORPUS CHRISTI, TEXAS

VOR/DME or TACAN Y RWY 31L

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

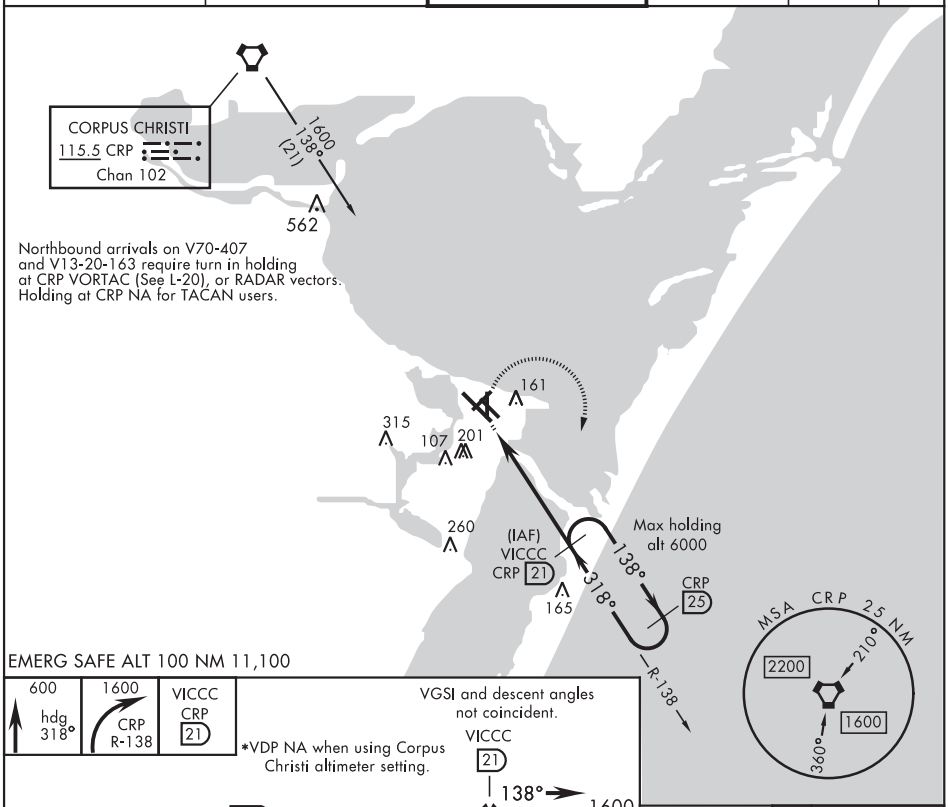
AL-98 [USN]

VORTAC CRP	APCH CRS	Rwy ldg	8002
115.5	318°	TDZE	18
Chan 102		Arpt Elev	19

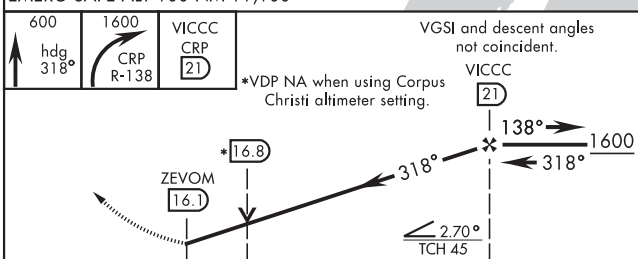
When local altimeter setting not received, use Corpus Christi altimeter setting.

MISSED APPROACH: Climb to 600 hdg 318°, then climbing right turn to 1600 to intercept CRP VORTAC R-138 to VICCC and hold.

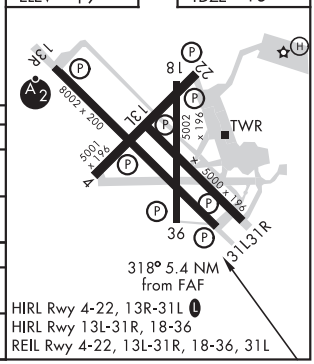
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 L 340.2	118.7 257.85	314.3	



EMERG SAFE ALT 100 NM 11,100



ELEV 19	TDZE 18



HIRL Rwy 4-22, 13R-31L L
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

CATEGORY	A	B	C	D
S-31L	440-1	422 (500-1)	440-1¼	422 (500-1¼)
C CIRCLING	480-1	461 (500-1)	540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-31L	480-1	462 (500-1)	480-1⅜	462 (500-1⅜)
C CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

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CORPUS CHRISTI, TEXAS

TACAN RWY 18

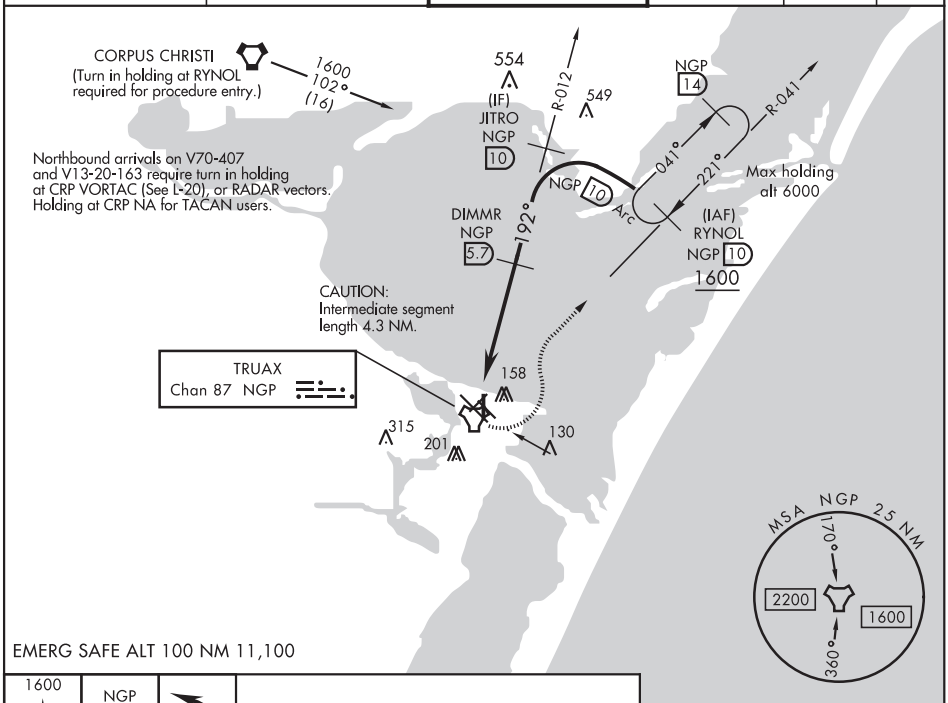
TACAN NGP Chan 87	APCH CRS 192°	Rwy ldg 5002 TDZE 19 Arpt Elev 19

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

When local altimeter setting not received, use Corpus Christi altimeter setting.

MISSED APPROACH: Climb to 1600 direct NGP TACAN and turn left to intercept R-041 to RYNOL and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	



CATEGORY	A	B	C	D
S-18	360-1 341 (400-1)			
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-18	400-1 381 (400-1)		400-1⅛ 381 (400-1⅛)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

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CORPUS CHRISTI, TEXAS

TACAN RWY 36

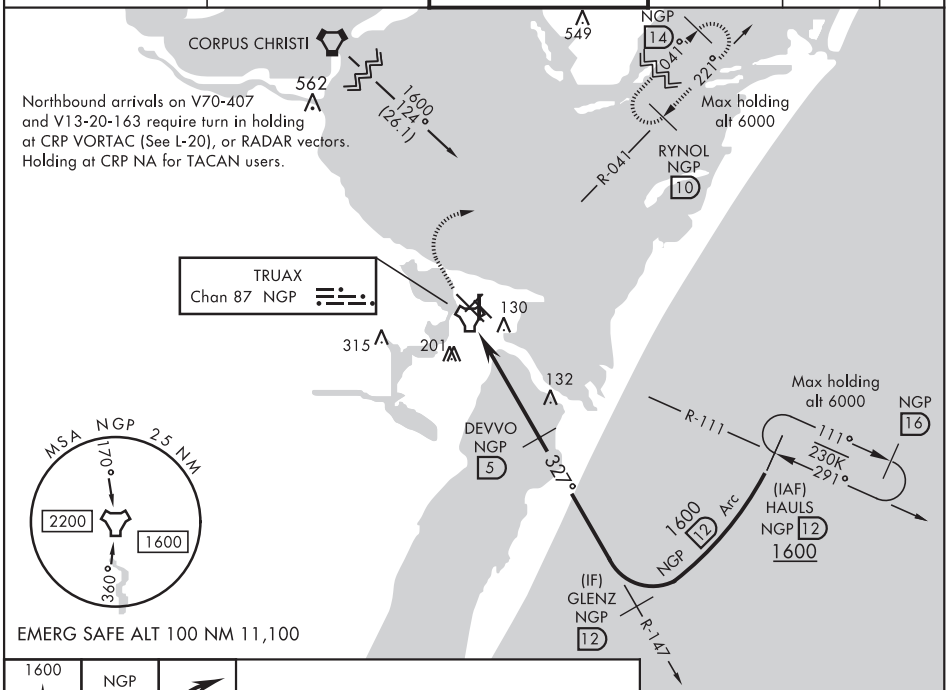
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

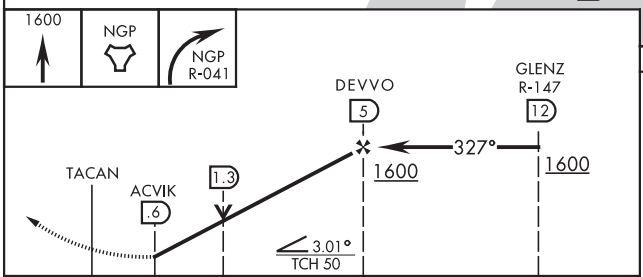
TACAN	APCH CRS	Rwy ldg	5002
NGP Chan 87	327°	TDZE	19
		Arpt Elev	19

When local altimeter setting not received, use Corpus Christi altimeter setting.

MISSED APPROACH: Climb to 1600 direct NGP TACAN and turn right to intercept R-041 to RYNOL and hold.

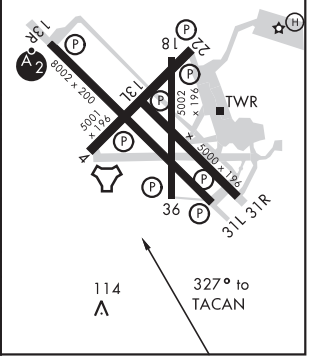
ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





ELEV 19	TDZE 19

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L



CATEGORY	A	B	C	D
S-36	420-1 401 (500-1)		420-1⅛ 401 (500-1⅛)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-36	460-1 441 (500-1)		460-1⅜ 441 (500-1⅜)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

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CORPUS CHRISTI, TEXAS

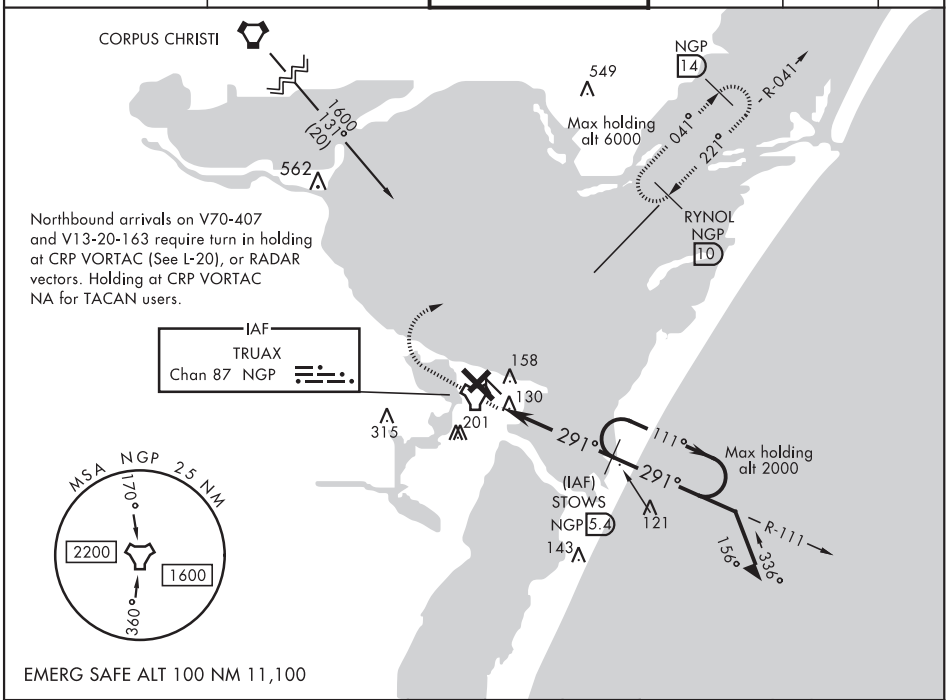
TACAN X RWY 31L

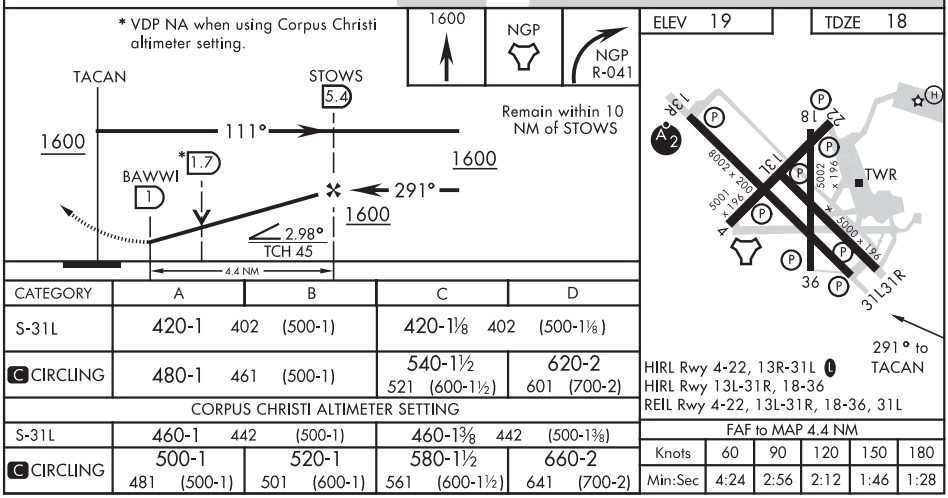
TACAN NGP Chan 87	APCH CRS 291°	Rwy ldg 8002 TDZE 18 Arpt Elev 19	AL-98 [USN]	CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

When local altimeter setting not received, use Corpus Christi altimeter setting.

MISSED APPROACH: Climb to 1600 direct NGP TACAN and turn right to intercept R-041 to RYNOL and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





CATEGORY	A	B	C	D
S-31L	420-1 402 (500-1)		420-1⅛ 402 (500-1⅛)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-31L	460-1 442 (500-1)		460-1⅜ 442 (500-1⅜)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

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CORPUS CHRISTI, TEXAS

TACAN Z RWY 13R

AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

TACAN	APCH CRS	Rwy ldg / TDZE / Arpt Elev
NGP Chan 87	147°	8002 / 13 / 19

* When ALS inop, increase CAT AB vis to 1 mile, CAT CD vis to 1⅛ miles.

SALSF

MISSED APPROACH: Climb to 1600 direct NGP TACAN and turn left to intercept R-041 to RYNOL and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	

When local altimeter setting not received, use Corpus Christi altimeter setting.

IAF CORPUS CHRISTI 115.5 CRP Chan 102

460 R-137 137° 1600

(IF) YOMEN NGP 10 562

147° R-327

LALEE NGP 5.8

106 76 130 315 201

549 Max holding alt 6000

NGP 14 R-041 041° 221°

RYNOL NGP 10

CAUTION: Intermediate segment length 4.2 NM

Northbound arrivals on V70-407 and V13-20-163 require turn in holding at CRP VORTAC (IF) (See L-20), or RADAR vectors. Holding at CRP NA for TACAN users.

TRUAX Chan 87 NGP

MSA NGP 25 NM 170° 2200 1600 360°

EMERG SAFE ALT 100 NM 11,100

CRP VORTAC 137° 147° 1600 1600 1600

YOMEN NGP R-327 10

LALEE NGP 5.8

† VDP NA when using Corpus Christi altimeter

1600 NGP NGP R-041

NGP † 2

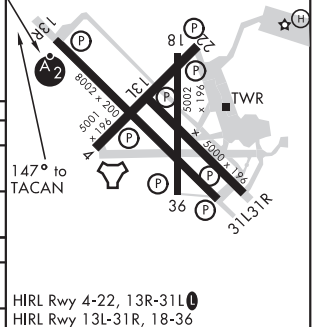
ACUXA NGP 1.4

NGP TACAN

2.99° TCH 47

4.4 NM

ELEV 19 TDZE 13



CATEGORY	A	B	C	D
S-13R *	400-¾ 387 (400-¾)		400-⅞ 387 (400-⅞)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-13R *	420-¾ 407 (500-¾)		420-1 407 (500-1)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

SC-3, 25 FEB 2021 to 22 APR 2021

CORPUS CHRISTI, TEXAS

TACAN Z RWY 31L

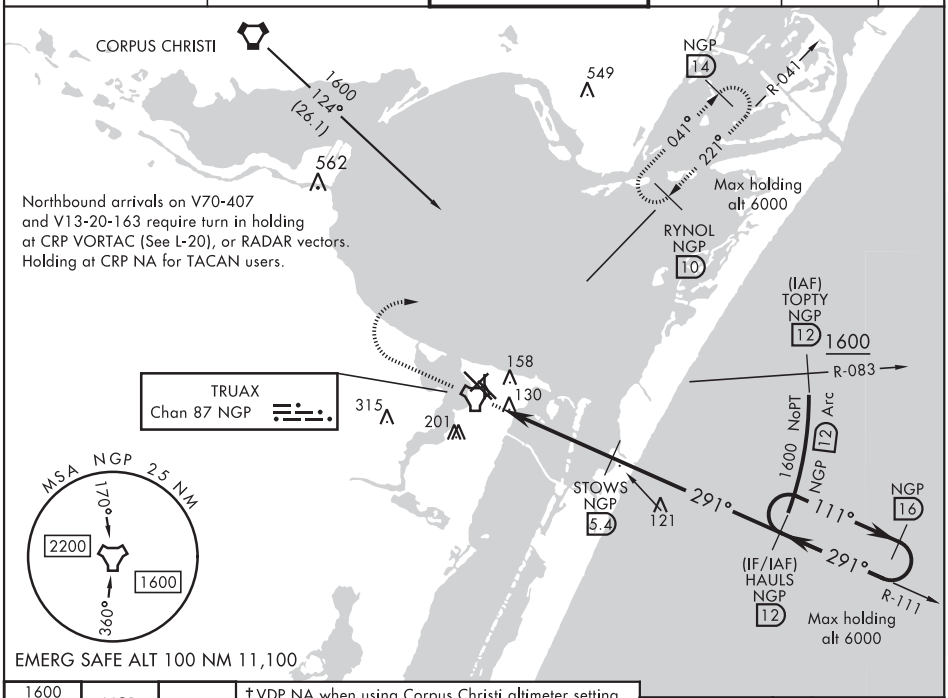
AL-98 [USN] CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

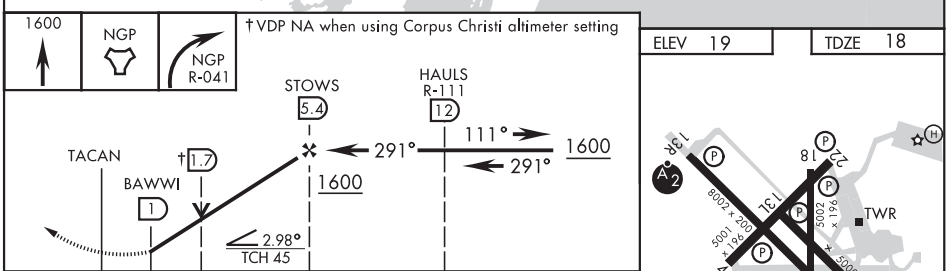
TACAN	APCH CRS	Rwy ldg	8002
NGP Chan 87	291°	TDZE	18
		Arpt Elev	19

When local altimeter setting not received, use Corpus Christi altimeter setting.

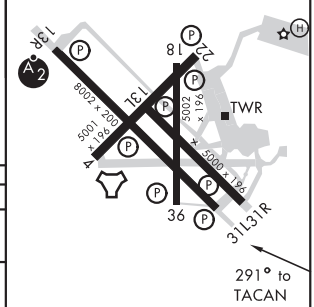
MISSED APPROACH: Climb to 1600 direct NGP TACAN and turn right to intercept R-041 to RYNOL and hold.

ATIS ★	CORPUS CHRISTI APP CON	NAVY CORPUS TOWER ★	GND CON	CLNC DEL	ASR/PAR
127.9 290.9	128.675 343.75	134.85 (L) 340.2	118.7 257.85	314.3	





ELEV 19 TDZE 18



CATEGORY	A	B	C	D
S-31L	420-1 402 (500-1)		420-1⅛ 402 (500-1⅛)	
(C) CIRCLING	480-1 461 (500-1)		540-1½ 521 (600-1½)	620-2 601 (700-2)
CORPUS CHRISTI ALTIMETER SETTING				
S-31L	460-1 442 (500-1)		460-1⅜ 442 (500-1⅜)	
(C) CIRCLING	500-1 481 (500-1)	520-1 501 (600-1)	580-1½ 561 (600-1½)	660-2 641 (700-2)

HIRL Rwy 4-22, 13R-31L (L)
HIRL Rwy 13L-31R, 18-36
REIL Rwy 4-22, 13L-31R, 18-36, 31L

SC-3, 25 FEB 2021 to 22 APR 2021

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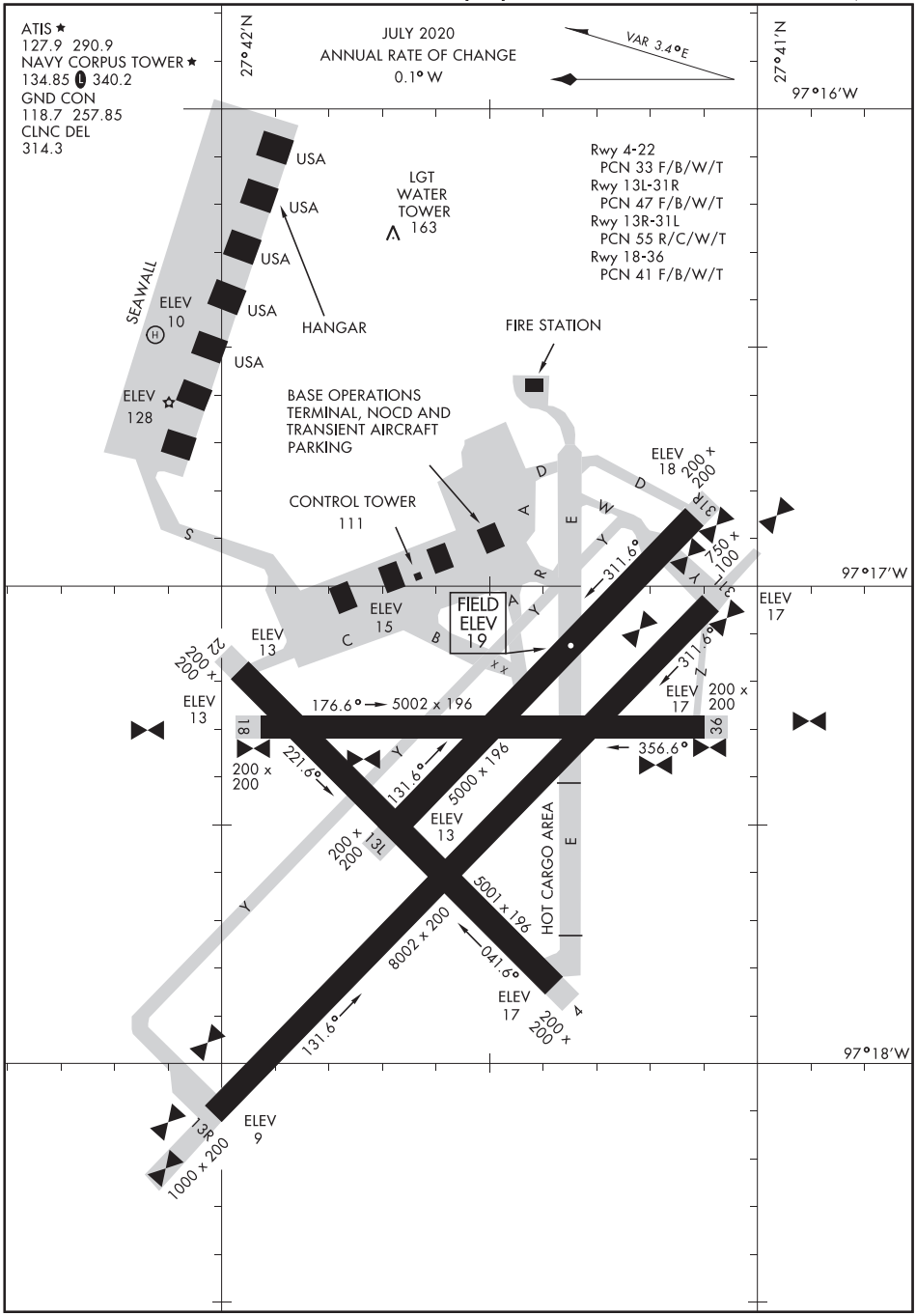
20198

AIRPORT DIAGRAM

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

AFD-98 [USN]

CORPUS CHRISTI, TEXAS



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AIRPORT DIAGRAM

CORPUS CHRISTI, TEXAS

CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)

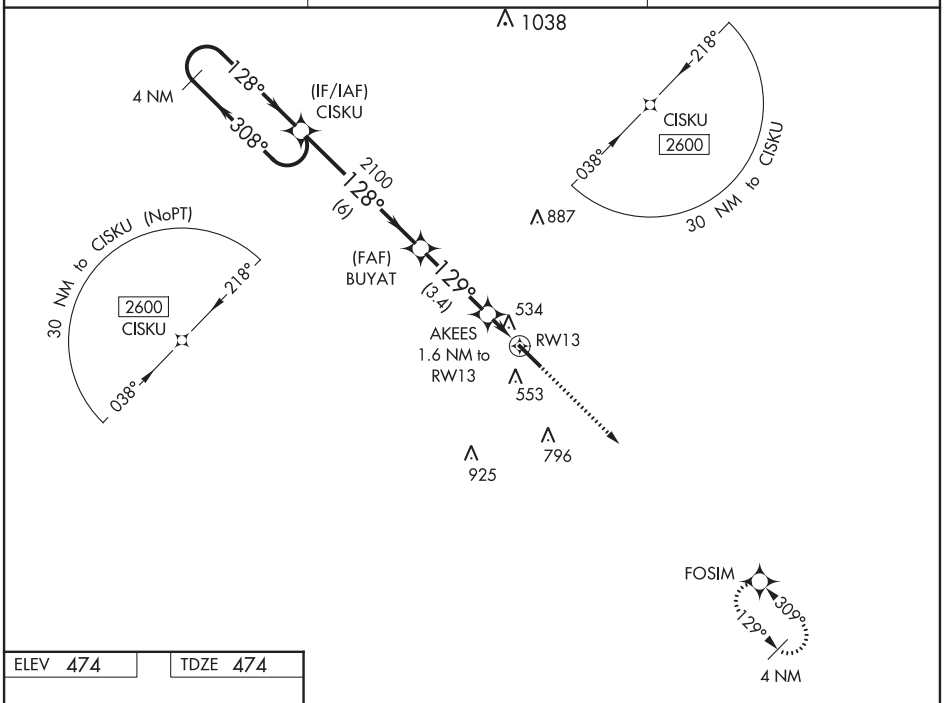
WAAS CH 61236 W13A	APP CRS 129°	Rwy ldg 6005 TDZE 474 Apt Elev 474

RNAV (GPS) RWY 13
COTULLA-LA SALLE COUNTY (COT)

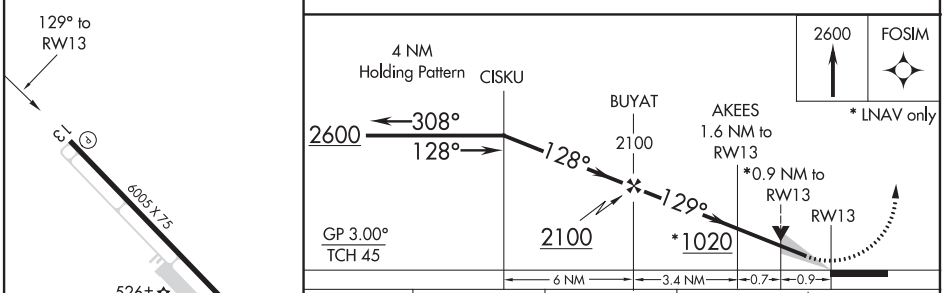
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2600 direct FOSIM and hold.

ASOS	HOUSTON CENTER	UNICOM
118.325	134.6 322.5	122.7 (CTAF) L



ELEV 474 TDZE 474



CATEGORY	A	B	C	D
LPV DA	724-1	250 (300-1)		NA
LNAV/VNAV DA	724-1	250 (300-1)		NA
LNAV MDA	800-1	326 (400-1)		NA
C CIRCLING	920-1 446 (500-1)	940-1 466 (500-1)	1120-1¾ 646 (700-1¾)	NA

MIRL Rwy 13-31 L

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COTULLA, TEXAS

AL-907 (FAA)

18032

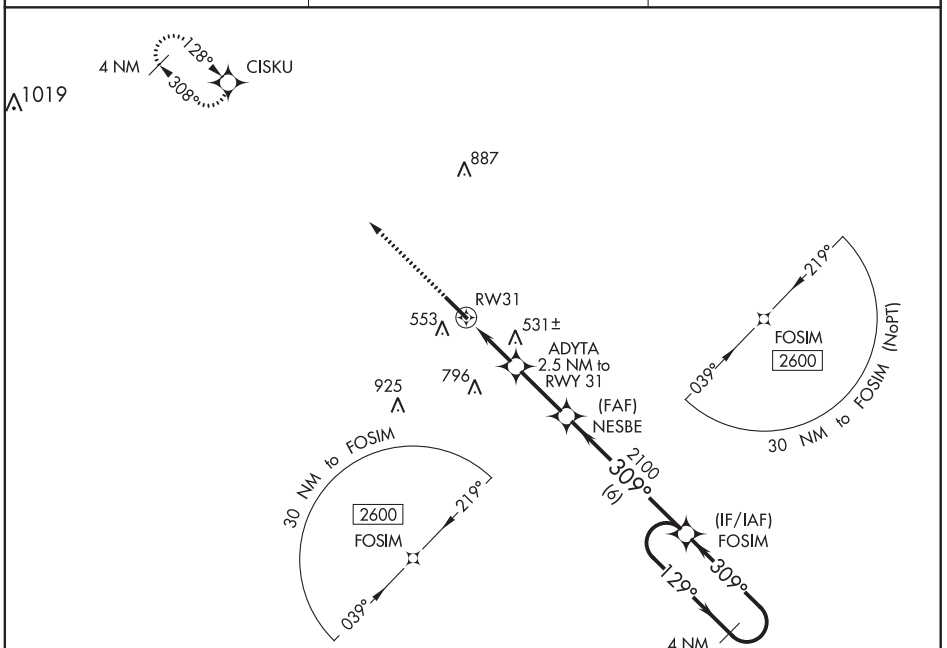
RNAV (GPS) RWY 31
COTULLA-LA SALLE COUNTY (COT)

WAAS CH 42836 W31A	APP CRS 309°	Rwy ldg 6005 TDZE 464 Apt Elev 474

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2600 direct CISKU and hold.

ASOS	HOUSTON CENTER	UNICOM
118.325	134.6 322.5	122.7 (CTAF) L



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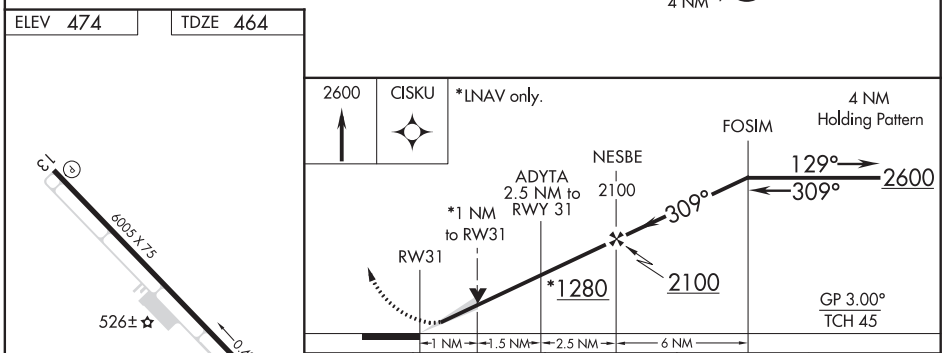
ELEV 474	TDZE 464



MIRL Rwy 13-31 L

CATEGORY		A	B	C	D
LPV	DA	714-¾ 250 (300-¾)			NA
LNAV/VNAV	DA	714-¾ 250 (300-¾)			NA
LNAV MDA		800-1 336 (400-1)			NA
C CIRCLING		920-1 446 (500-1)	940-1 466 (500-1)	1120-1¾ 646 (700-1¾)	NA

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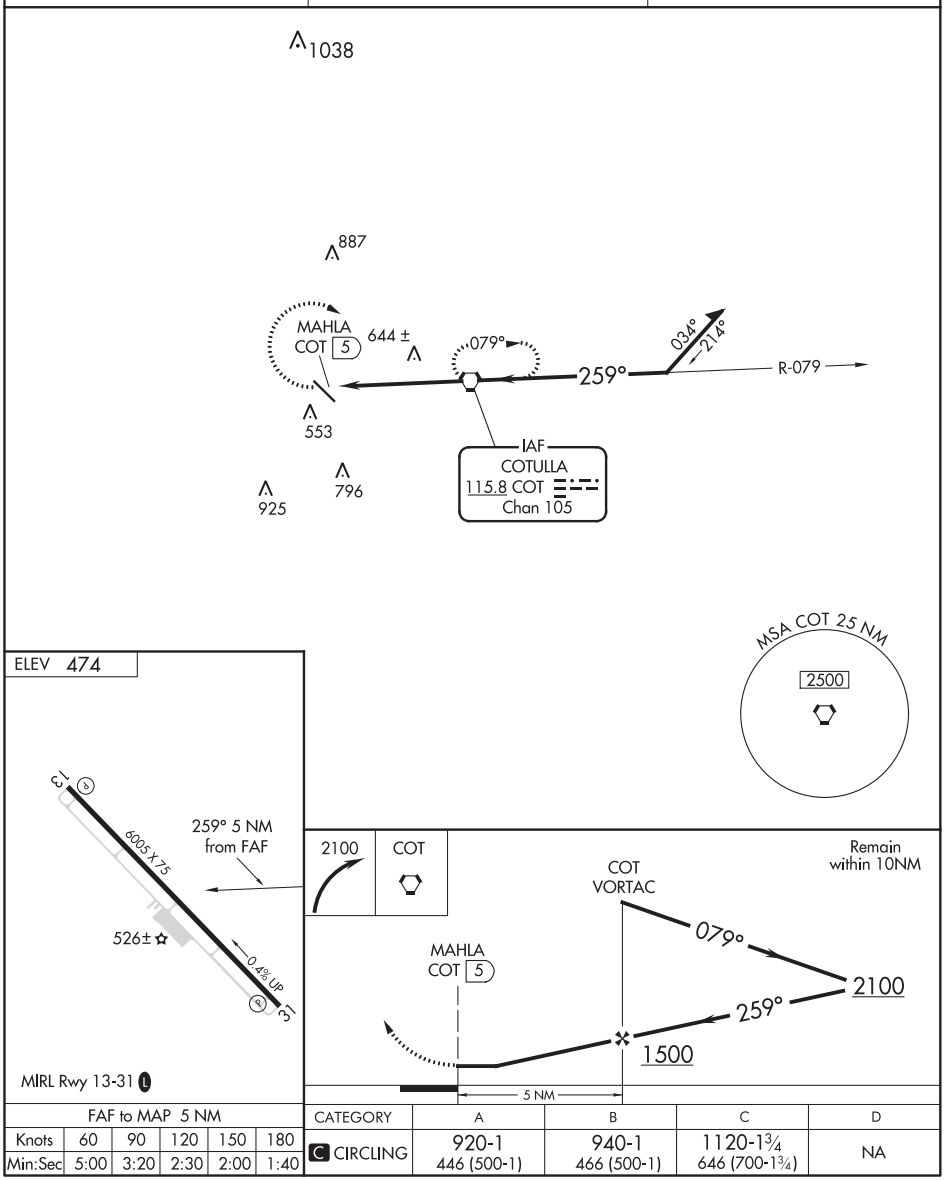
VOR-A
COTULLA-LA SALLE COUNTY (COT)

VORTAC COT	APP CRS	Rwy ldg	N/A
115.8	259°	TDZE	N/A
Chan 105		Apt Elev	474

When local altimeter setting not received, use Pleasanton Muni altimeter setting; increase all MDA 120 feet, Circling Cat C visibility ½ SM.

MISSED APPROACH: Climbing right turn to 2100 direct COT VORTAC and hold.

ASOS	HOUSTON CENTER	UNICOM
118.325	134.6 322.5	122.7 (CTAF) L



FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:00	2:00	1:40

CATEGORY	A	B	C	D
C CIRCLING	920-1 446 (500-1)	940-1 466 (500-1)	1120-1¾ 646 (700-1¾)	NA

DEL RIO, TEXAS

AL-5268 (FAA)

20142

ILS or LOC RWY 13
DEL RIO INTL (DRT)

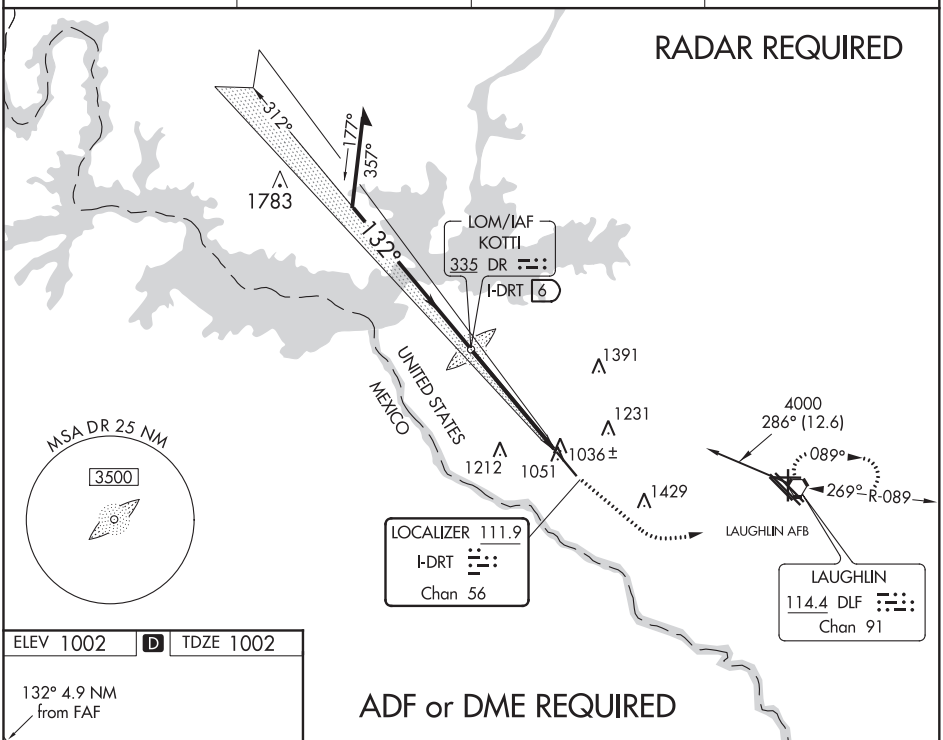
LOC I-DRT	APP CRS	Rwy ldg	6000
111.9	132°	TDZE	1002
Chan 56		Apt Elev	1002

T A NA — Circling NA for Cat D SW of Rwy 13-31. When local altimeter setting not received, use Laughlin AFB altimeter setting and increase all DAs 30 feet, all MDAs 40 feet, increase S-LOC 13 Cat D and Circling Cat D visibility ¼ mile. VDP NA when using Laughlin AFB altimeter setting.

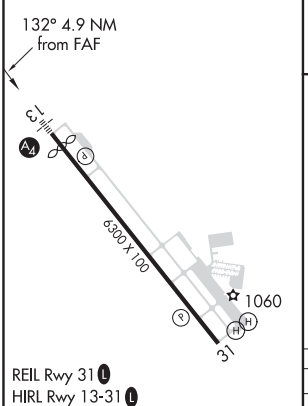
MALS — A4

MISSED APPROACH: Climb to 2000 via heading 122° then climbing left turn to 4000 direct DLF VORTAC and hold. Continue climb-in-hold to 4000.

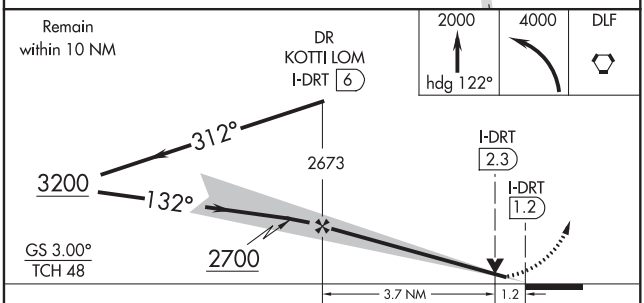
ASOS	DEL RIO APP CON ★	CLNC DEL	UNICOM
118.525	119.6 259.1	120.5	122.8 (CTAF) L



ELEV 1002 | D | TDZE 1002



FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



CATEGORY	A	B	C	D
S-ILS 13	1202-¾ 200 (200-¾)			
S-LOC 13	1420-½ 418 (500-½)		1420-¾ 418 (500-¾)	
CIRCLING	1440-1 438 (500-1)	1460-1 458 (500-1)	1560-1½ 558 (600-1½)	1640-2 638 (700-2)

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RNAV (GPS) RWY 13
DEL RIO INTL (DRT)

WAAS CH 86499 W13A	APP CRS 132°	Rwy ldg 6000 TDZE 1002 Apt Elev 1002

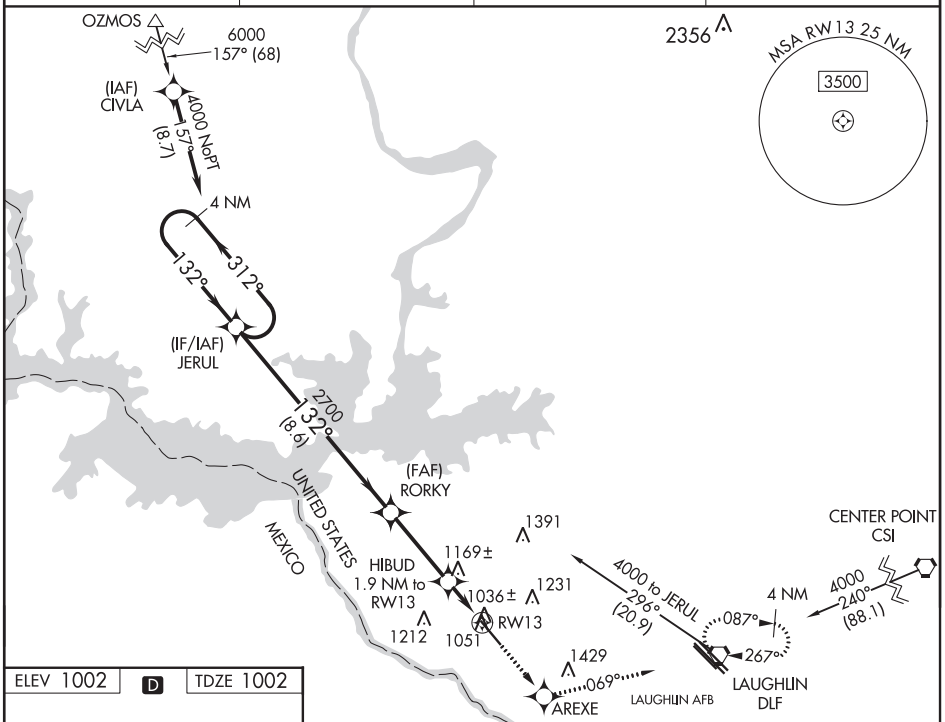
RNP APCH.

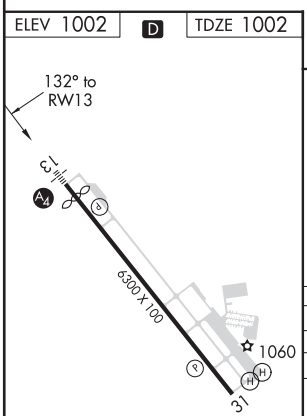
Circling NA for Cat D southwest of Rwy 13-31. When local altimeter setting not received, use Laughlin AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet, increase LPV visibility all Cats, LNAV visibility Cats C and D and Circling visibility Cat D ¼mile. Baro-VNAV NA when using Laughlin AFB altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17° C (2°F) or above 47°C (116°F).

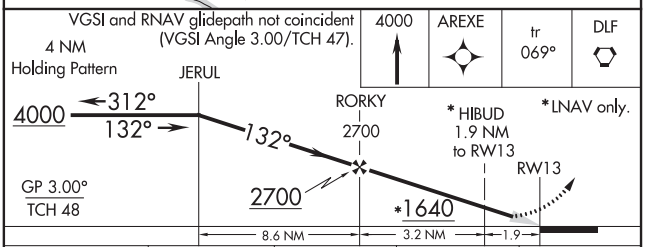
MALS

MISSED APPROACH: Climb to 4000 direct AREXE and on 069° track to DLF VORTAC and hold, continue climb-in-hold to 4000.

ASOS	DEL RIO APP CON ★	CLNC DEL	UNICOM
118.525	119.6 259.1	120.5	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	1252-¾ 250 (300-¾)			
LNAV/VNAV DA	1401-1 399 (400-1)			
LNAV MDA	1500-½ 498 (500-½)		1500-¾ 498 (500-¾)	1500-1 498 (500-1)
CIRCLING	1500-1 498 (500-1)		1560-1½ 558 (600-1½)	1640-2 638 (700-2)

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DEL RIO, TEXAS

AL-5268 (FAA)

20254

VOR-A

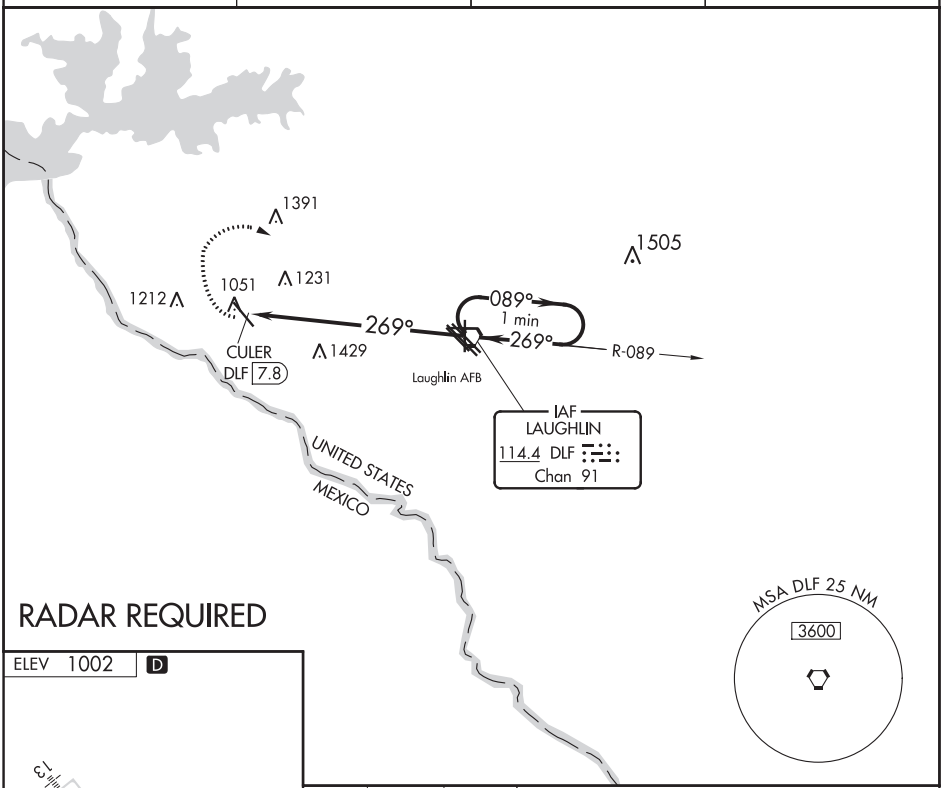
DEL RIO INTL (DRT)

VORTAC DLF 114.4 Chan 91	APP CRS 269°	Rwy ldg N/A TDZE N/A Apt Elev 1002

Circling NA for Cat D SW of Rwy 13-31. If local altimeter setting not received, use Laughlin AFB altimeter setting and increase all MDAs 40 feet.

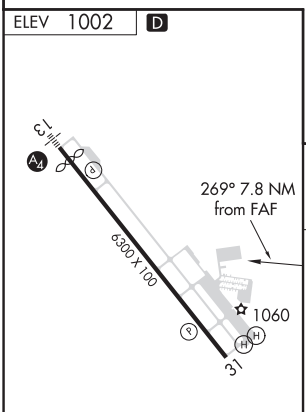
MISSED APPROACH: Climbing right turn to 4000 via heading 340° then right turn direct DLF VORTAC and hold.

ASOS	DEL RIO APP CON ★	CLNC DEL	UNICOM
118.525	119.6 259.1	120.5	122.8 (CTAF) L

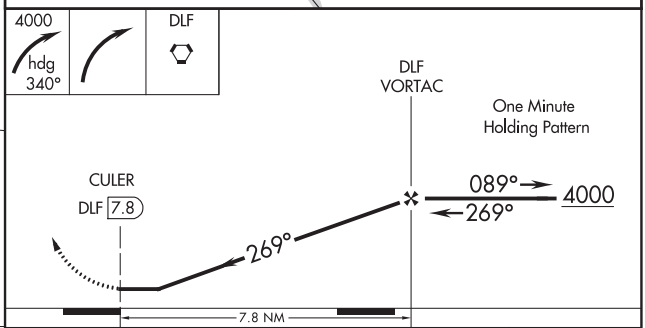


RADAR REQUIRED

ELEV 1002 D



REIL Rwy 31 L
HIRL Rwy 13-31 L



FAF to MAP 7.8 NM					
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

CATEGORY	A	B	C	D
C CIRCLING	1780-1 778 (800-1)	1780-1¼ 778 (800-1¼)	1780-2¼ 778 (800-2¼)	1780-2½ 778 (800-2½)

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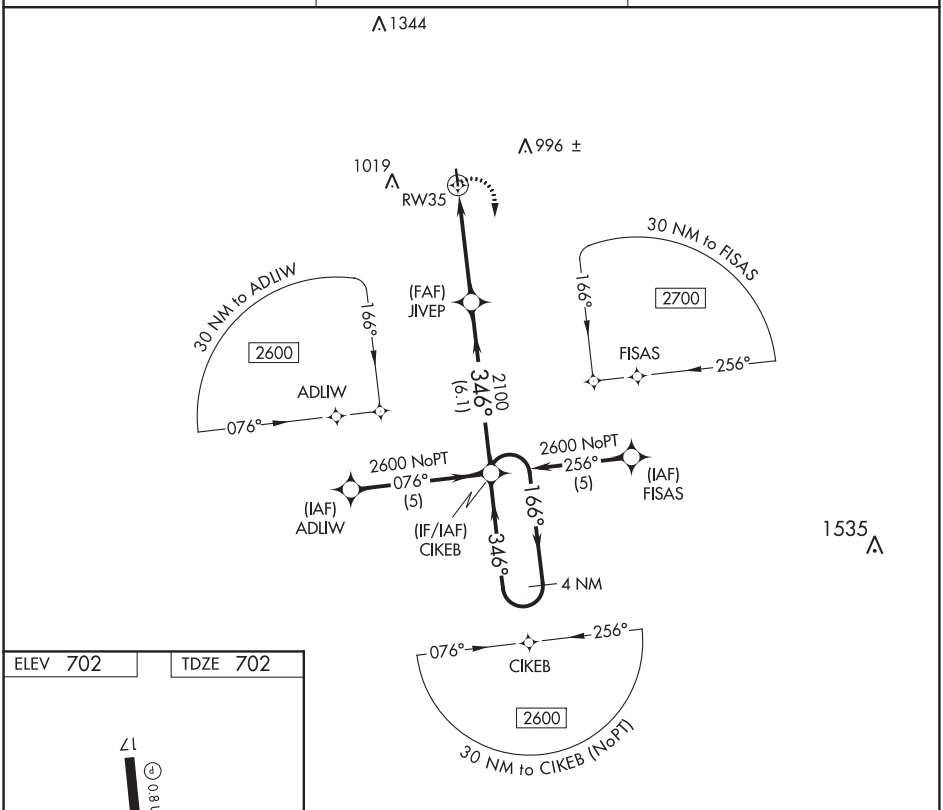
RNAV (GPS) RWY 35
DEVINE MUNI (23R)

APP CRS	Rwy ldg	3399
346°	TDZE	702
	Apt Elev	702

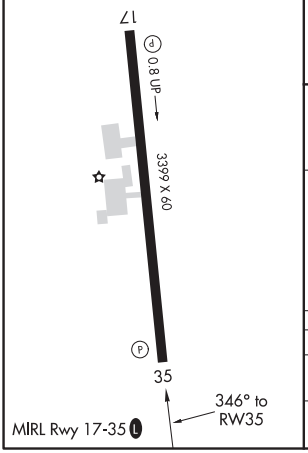
DME/DME RNP-0.3 NA. Use Castroville Muni altimeter setting; when not received, use Hondo Muni altimeter setting and increase all MDA 40 feet. Night landing: Rwy 35 NA. Helicopter visibility below 1 SM NA.

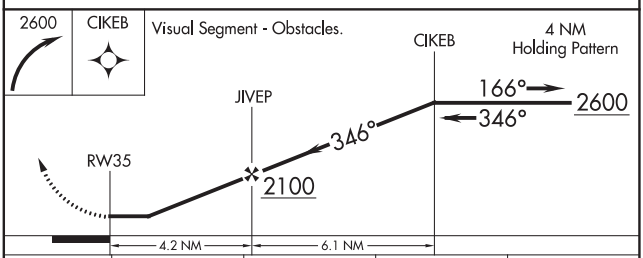
MISSED APPROACH: Climbing right turn to 2600 direct CIKEB and hold.

CVB AWOS-3	HOUSTON CENTER	CTAF
119.25	134.95 269.4	122.9 L



ELEV 702 | TDZE 702





CATEGORY	A	B	C	D
LNAV MDA	1140-1	438 (500-1)	NA	
CIRCLING	1380-1	678 (700-1)	NA	

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DEVINE, TEXAS

AL-6713 (FAA)

20198

NDB RWY 35

DEVINE MUNI (23R)

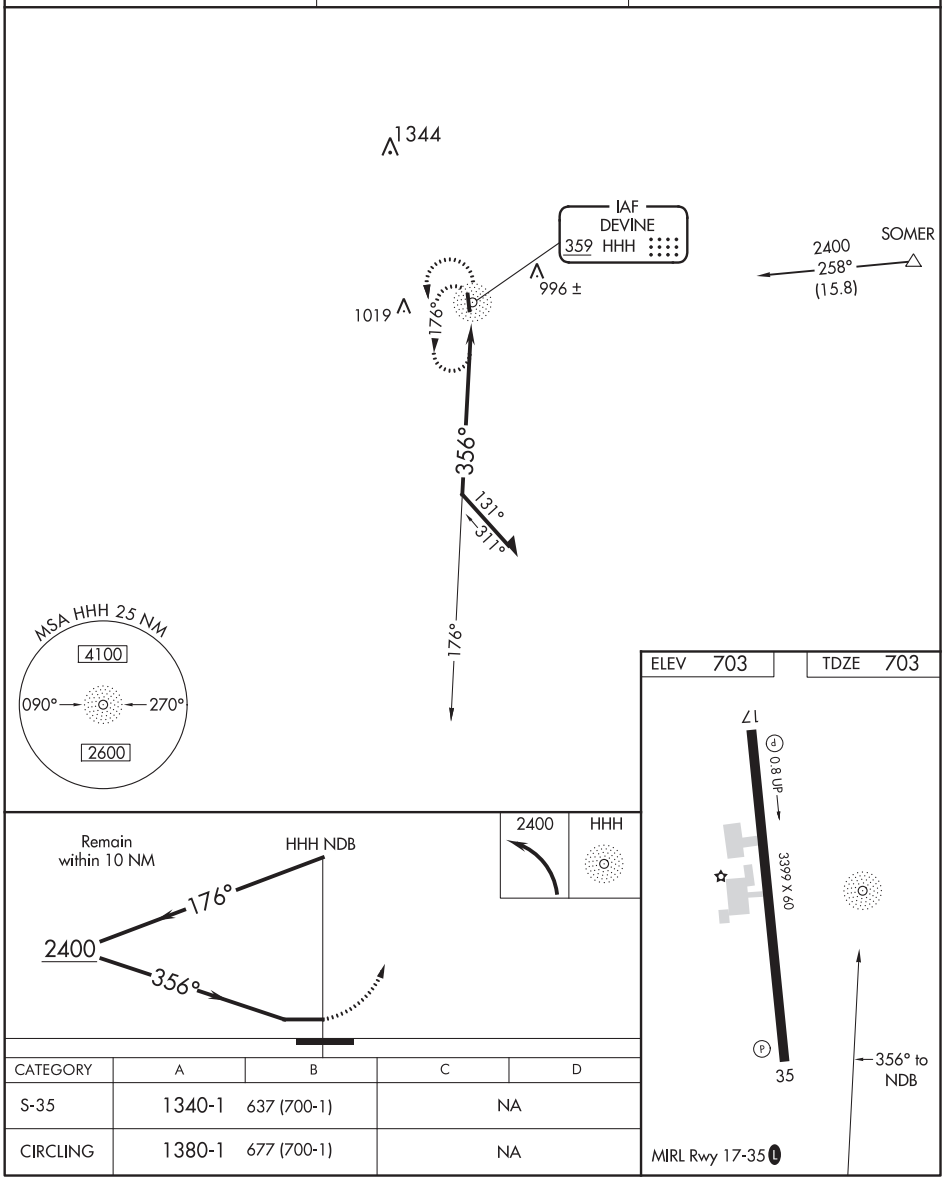
NDB HHH	APP CRS	Rwy ldg	3399
359	356°	TDZE	703
		Apt Elev	703

Use Castroville Muni altimeter setting; when not received, use South Texas Rgnl at Hondo altimeter setting and increase all MDA 40 feet. Helicopter visibility reduction below 1 SM NA. Night landing: Rwy 35 NA.

NA

MISSED APPROACH: Climbing left turn to 2400 in HHH NDB holding pattern.

CVB AWOS-3	HOUSTON CENTER	CTAF
119.25	134.95 269.4	122.9 L



CATEGORY	A	B	C	D
S-35	1340-1	637 (700-1)	NA	
CIRCLING	1380-1	677 (700-1)	NA	

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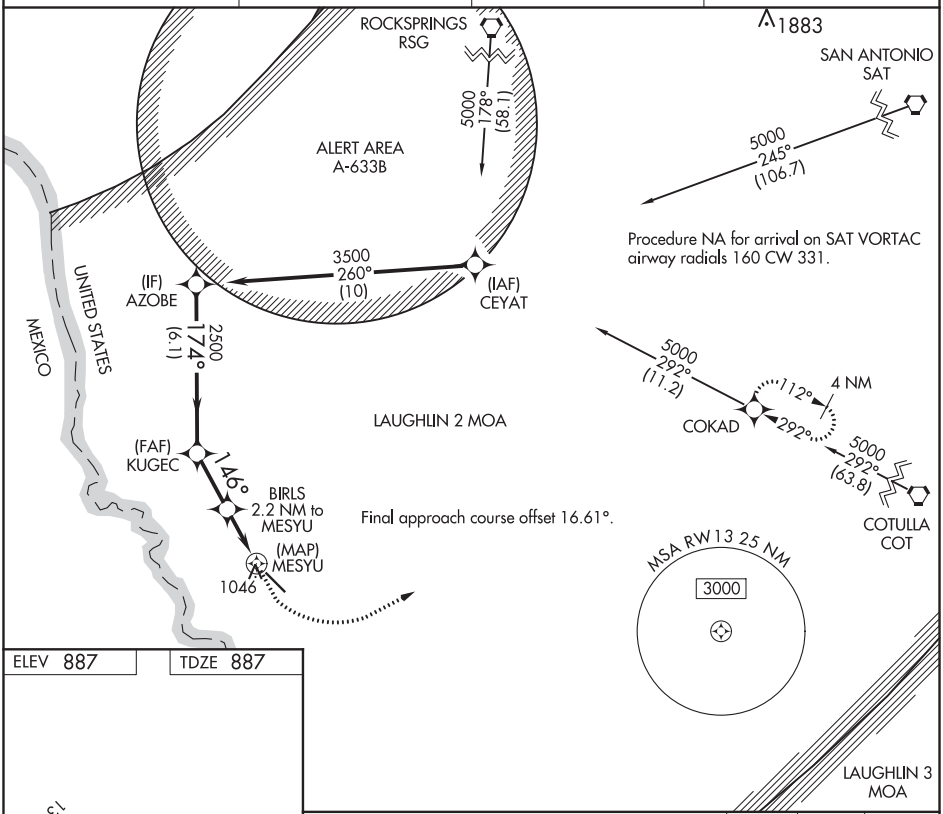
WAAS CH 65942 W13A	APP CRS 146°	Rwy ldg 5506 TDZE 887 Apt Elev 887

RNAV (GPS) RWY 13
MAVERICK COUNTY MEMORIAL INTL (5T9)

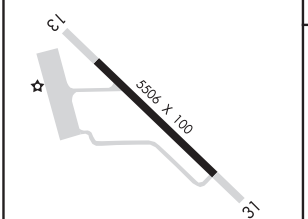
RNP APCH.

MISSED APPROACH: Climb to 1600 then climbing left turn to 4000 direct COKAD and hold.

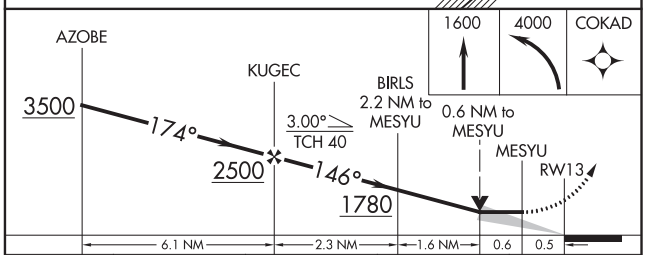
AWOS-3	KDLF ATIS	DEL RIO APP CON ★	UNICOM
119.175	114.4	127.75 326.2	122.8 (CTAF) L



ELEV 887 TDZE 887



MIRL Rwy 13-31 L



CATEGORY	A	B	C	D
LP MDA	1260-1 373 (400-1)			NA
LNAV MDA	1360-1 473 (500-1)		1360-1⅜ 473 (500-1⅜)	NA

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EAGLE PASS, TEXAS

AL-126 (FAA)

20198

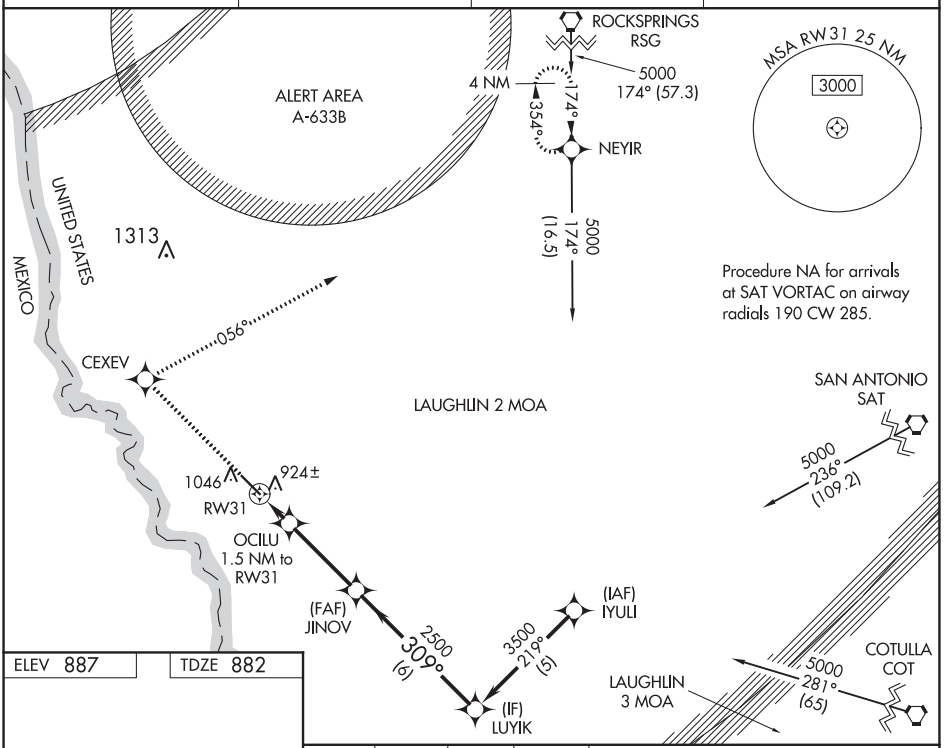
RNAV (GPS) RWY 31
MAVERICK COUNTY MEMORIAL INTL (5T9)

WAAS CH 63207 W31A	APP CRS 309°	Rwy ldg 5506 TDZE 882 Apt Elev 887

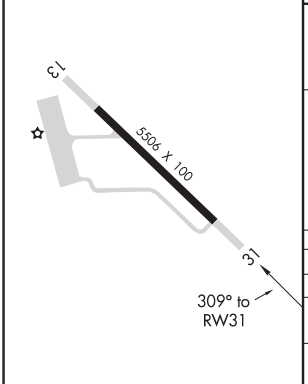
Baro-VNAV NA. DME/DME RNP-0.3 NA. Use Laughlin AFB altimeter setting; when not received, use Del Rio Intl altimeter setting.

MISSED APPROACH: Climb to 4000 direct CEXEV and via 056° track to NEYIR and hold.

AWOS-3	KDLF ATIS	DEL RIO APP CON *	UNICOM
119.175	114.4	127.75 326.2	122.8 (CTAF) L



ELEV 887 | TDZE 882

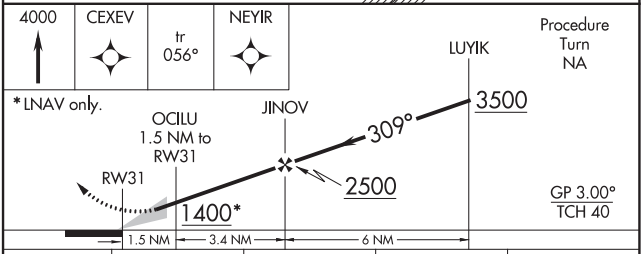


MIRL Rwy 13-31 L

4000	CEXEV	tr 056°	NEYIR

Procedure Turn NA

*LNAV only.



GP 3.00°
TCH 40

CATEGORY	A	B	C	D
LPV DA	1236-1¼ 354 (400-1¼)			NA
LNAV/VNAV DA	1298-1½ 416 (500-1½)			NA
LNAV MDA	1280-1 398 (400-1)			NA
CIRCLING	1500-1 613 (700-1)		1500-1¾ 613 (700-1¾)	NA

EAGLE PASS, TEXAS
Orig-A 18AUG16

28°51′N-100°30′W

MAVERICK COUNTY MEMORIAL INTL (5T9)
RNAV (GPS) RWY 31

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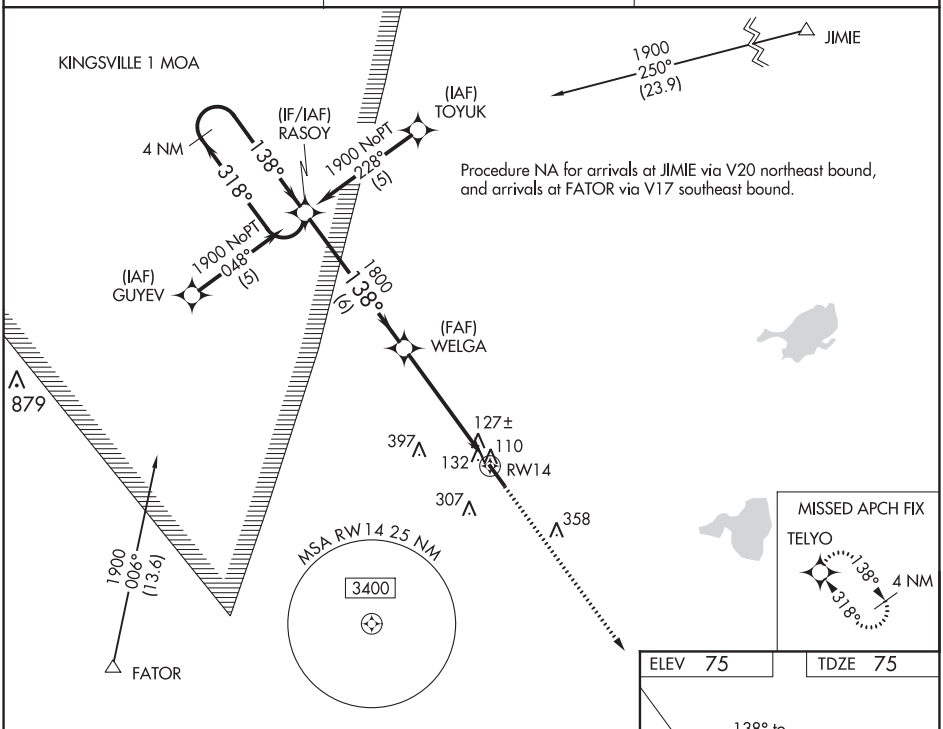
WAAS CH **77901** **W14A**	APP CRS **138°**	Rwy ldg **5000** TDZE **75** Apt Elev **75**

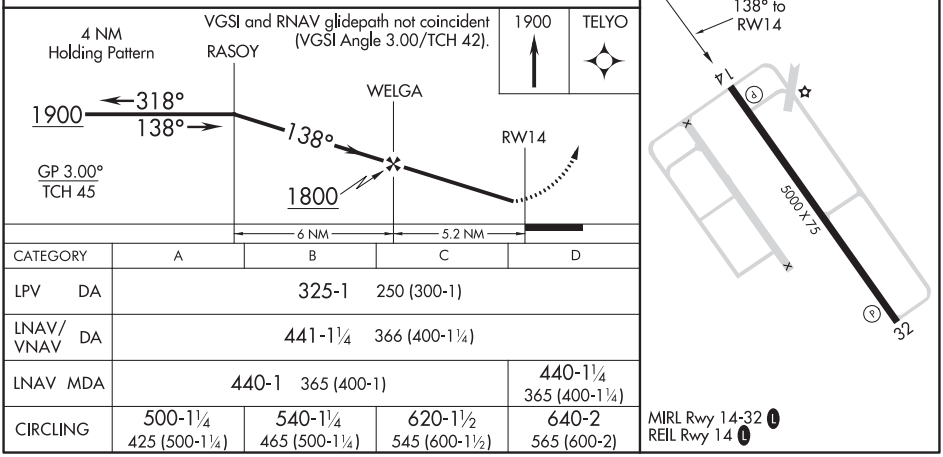
RNAV (GPS) RWY 14
SOUTH TEXAS INTL AT EDINBURG (EBG)

Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (120°F).

MISSED APPROACH: Climb to 1900 direct TELYO and hold.

AWOS-3	CORPUS APP CON	UNICOM
118.025	**121.0 377.2**	**122.8** (CTAF) L





CATEGORY	A	B	C	D
LPV DA	325-1 250 (300-1)			
LNAV/VNAV DA	441-1¼ 366 (400-1¼)			
LNAV MDA	440-1 365 (400-1)			440-1¼ 365 (400-1¼)
CIRCLING	500-1¼ 425 (500-1¼)	540-1¼ 465 (500-1¼)	620-1½ 545 (600-1½)	640-2 565 (600-2)

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

EDINBURG, TEXAS

AL-10218 (FAA)

21056

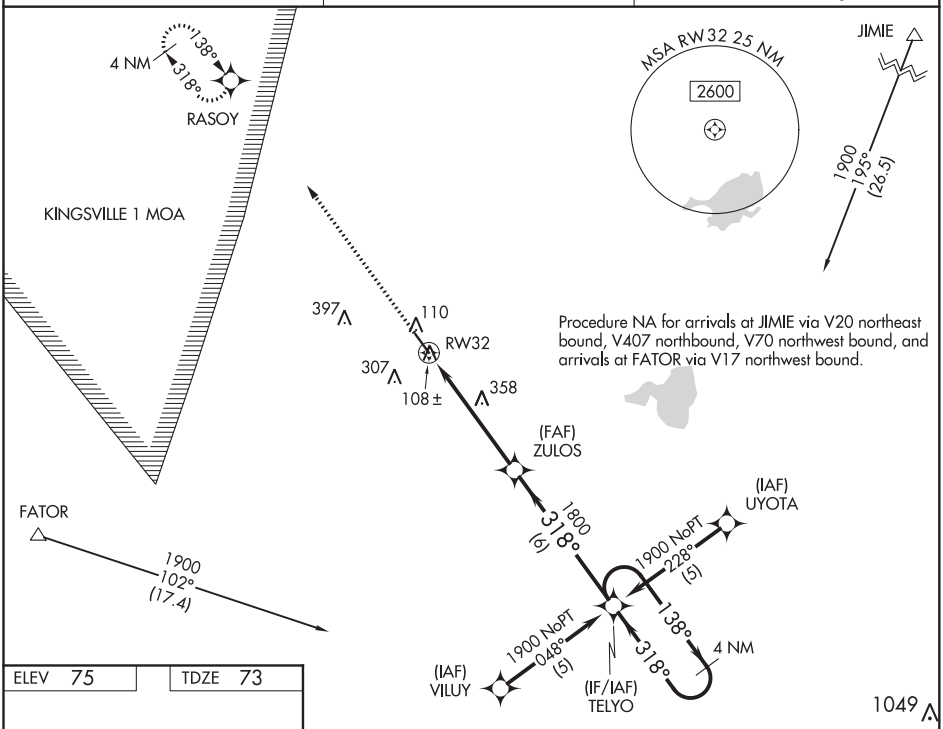
RNAV (GPS) RWY 32
SOUTH TEXAS INTL AT EDINBURG (EBG)

WAAS CH 70701 W32A	APP CRS 318°	Rwy ldg 5000 TDZE 73 Apt Elev 75

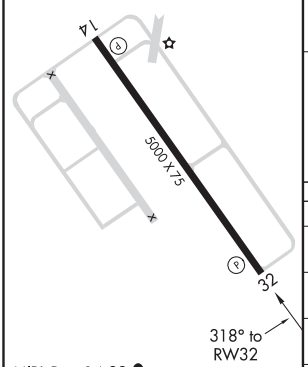
Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (120°F).

MISSED APPROACH: Climb to 1900 direct RASOY and hold.

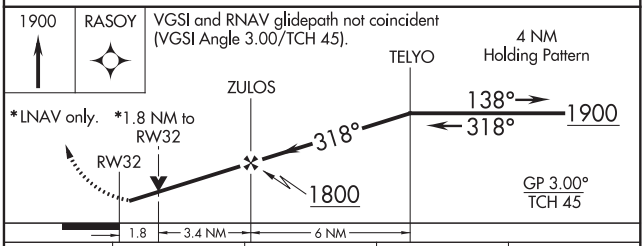
AWOS-3	CORPUS APP CON	UNICOM
118.025	121.0 377.2	122.8 (CTAF) L



ELEV 75 | TDZE 73



MIRL Rwy 14-32 L
REIL Rwy 14 L



CATEGORY		A	B	C	D
LPV	DA	323-¾ 250 (300-¾)			
LNAV/VNAV	DA	361-1 288 (300-1)			
LNAV	MDA	660-1 587 (600-1)		660-1½ 587 (600-1½)	660-1¾ 587 (600-1¾)
CIRCLING		660-1 585 (600-1)		660-1½ 585 (600-1½)	660-2 585 (600-2)

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 22
EL PASO INTL (ELP)

LOC/DME I-ELP	APP CRS	Rwy ldg	12020
111.5	222°	TDZE	3950
Chan 52		Apt Elev	3962

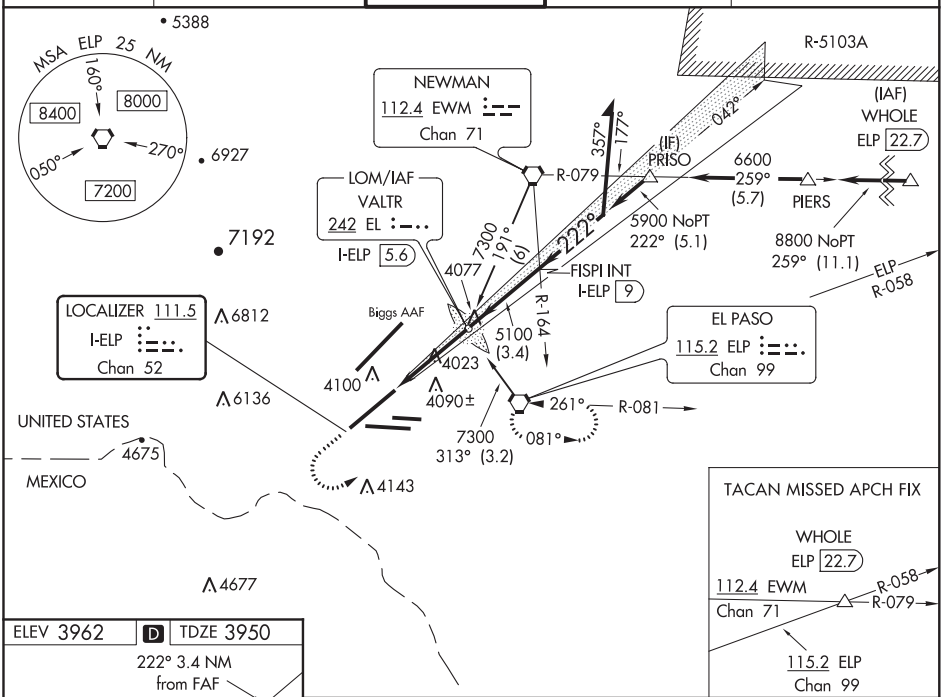
RADAR required when R-5103 in use.

T A ASR — Circling NA for Cat D and E west of Rwy 4-22. For inop ALS increase S-ILS 22 Cat E visibility to RVR 4000 and S-LOC 22 Cat C/D/E visibility to RVR 5500. Procedure turn NA for Cat E aircraft. *Maintain 7300 or above until established outbound for PT.

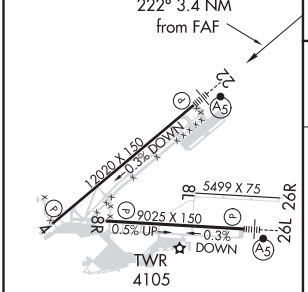
MALSR

MISSED APPROACH: Climb to 4600 then climbing left turn to 7300 direct ELP VORTAC and hold. (TACAN equipped aircraft continue climbing to 9000 on ELP R-058 to WHOLE INT/ELP 22.7 DME)

D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1

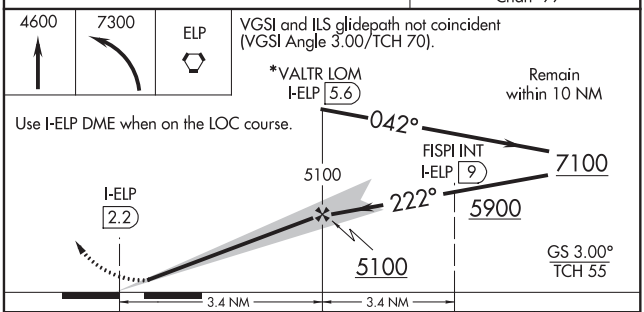


ELEV 3962 | D | TDZE 3950



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

FAF to MAP 3.4 NM					
Knots	60	90	120	150	180
Min:Sec	3:24	2:16	1:42	1:22	1:08



CATEGORY	A	B	C	D	E
S-ILS 22	4150/24 200 (200-½)				
S-LOC 22	4300/24 350 (400-½)		4300/30 350 (400-⅝)	4300/40 350 (400-¾)	
C CIRCLING	4420-1 458 (500-1)	4440-1 478 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)	4700-2½ 738 (800-2½)

EL PASO, TEXAS AL-134 (FAA) 20310

RNAV (RNP) X RWY 8R

EL PASO INTL (ELP)

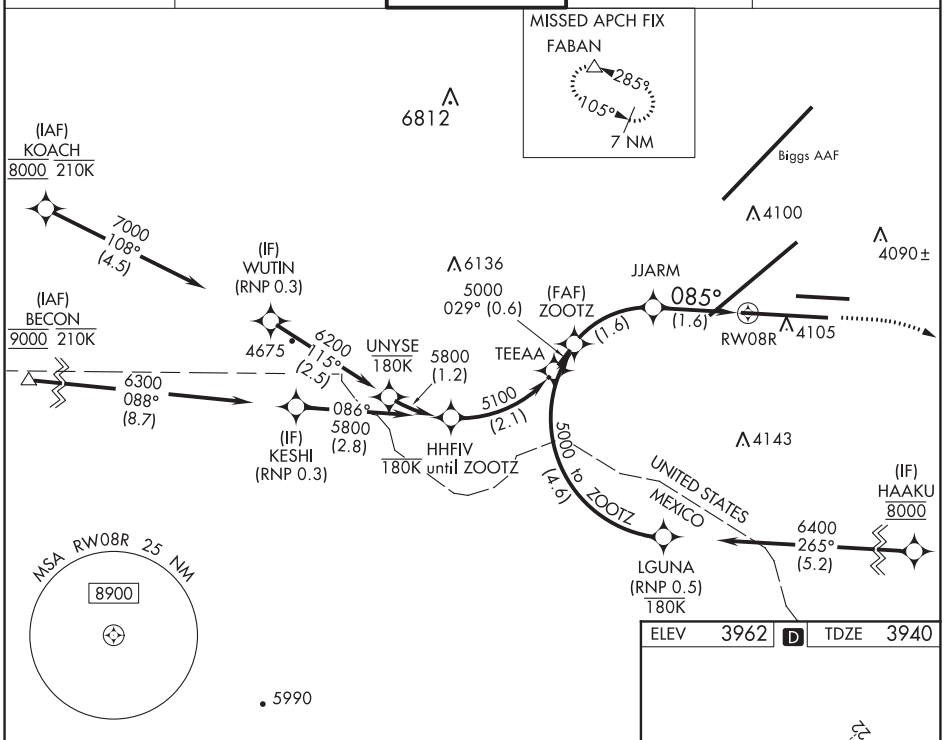
APP CRS	Rwy ldg	9025
085°	TDZE	3940
	Apt Elev	3962

RNP AR APCH.
RF required.

ASR For uncompensated Baro-VNAV systems, procedure NA below -5°C or above 54°C.

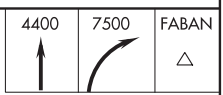
MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

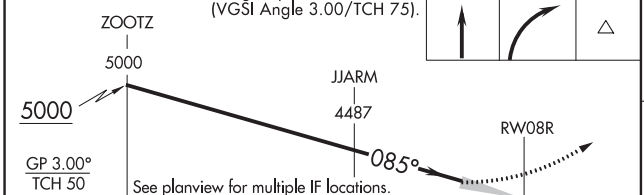
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1

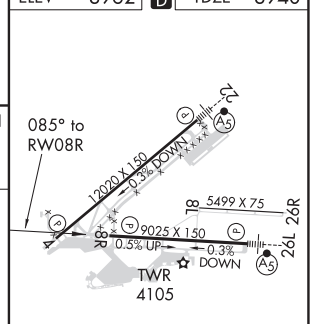


ELEV	3962	D	TDZE	3940

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).







CATEGORY	A	B	C	D
RNP 0.20 DA	4193-¾ 253 (300-¾)			
RNP 0.30 DA	4234-⅞ 294 (300-⅞)			

AUTHORIZATION REQUIRED

MIRL Rwys 8L-26R
HIRL Rwys 4-22 and 8R-26L
REIL Rwys 4 and 8R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	12020
042°	TDZE	3923
	Apt Elev	3962

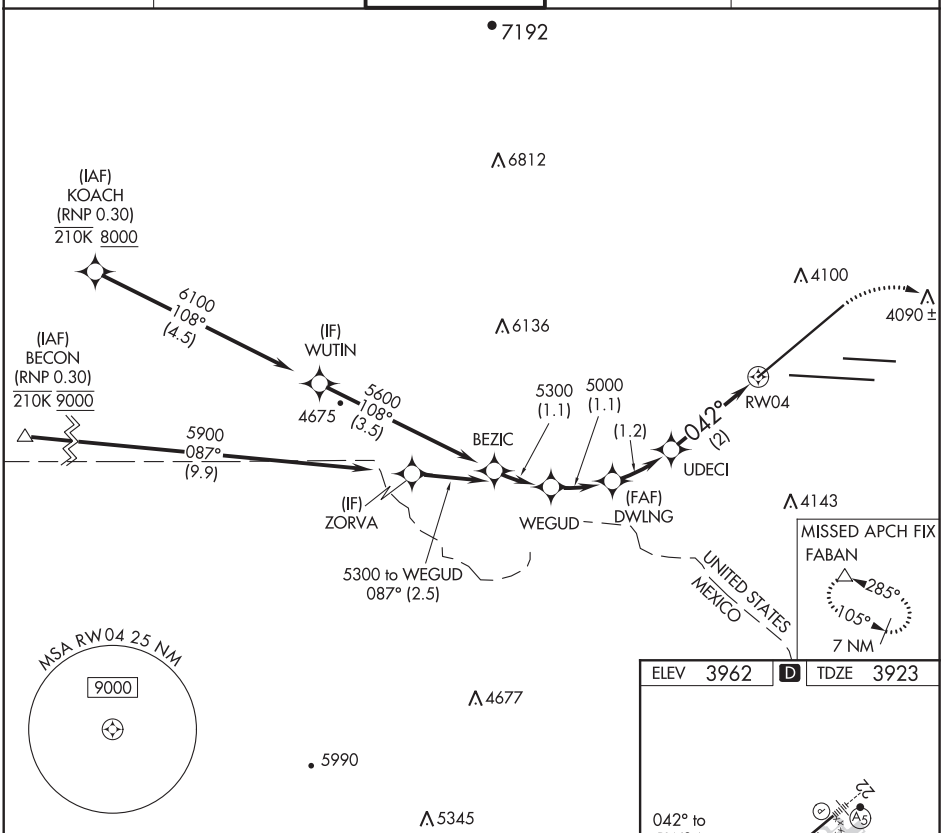
RNAV (RNP) Y RWY 4
EL PASO INTL (ELP)

RNP AR APCH. RF required.

ASR For uncompensated Baro-VNAV systems, procedure NA below -22°C or above 54°C.

MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

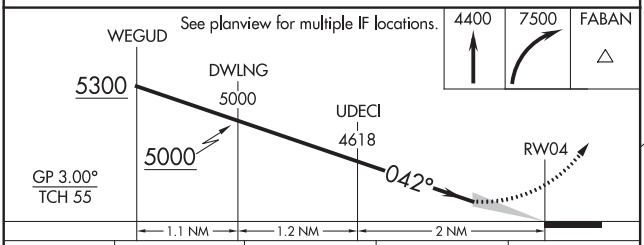
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1

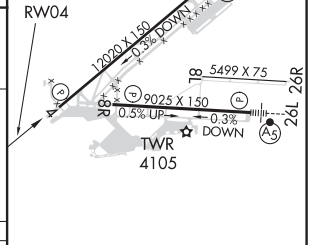


ELEV 3962 D TDZE 3923

See planview for multiple IF locations.

4400	7500	FABAN
↑	↗	△





CATEGORY	A	B	C	D
RNP 0.20 DA	4271/55	348 (400-1)		
RNP 0.30 DA	4340/60	417 (400-1¼)		

AUTHORIZATION REQUIRED

MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

EL PASO, TEXAS

AL-134 (FAA)

20310

RNAV (RNP) Y RWY 8R

EL PASO INTL (ELP)

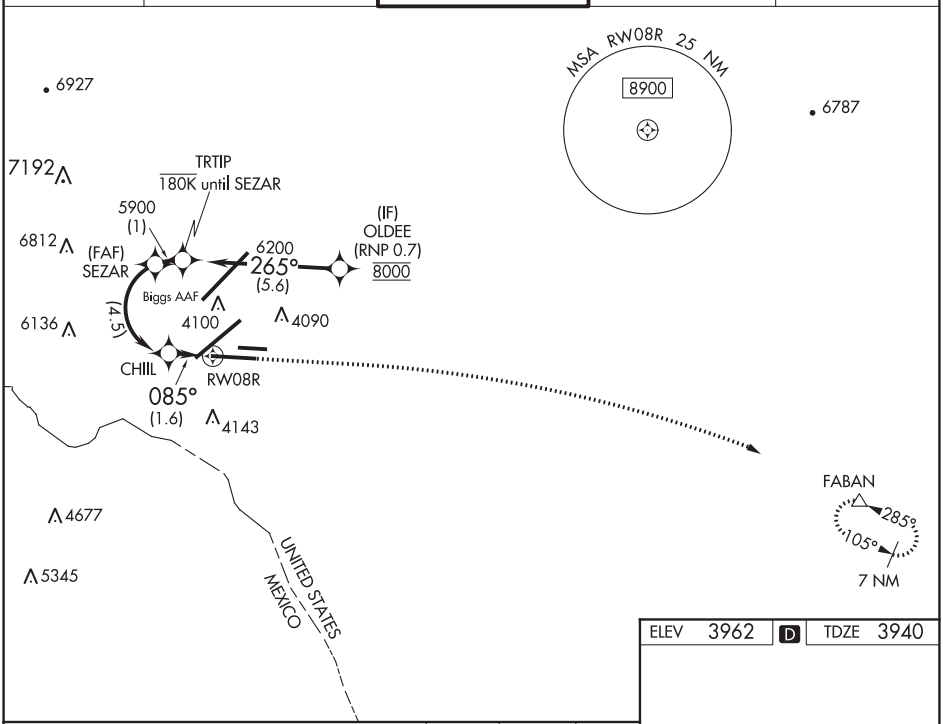
APP CRS	Rwy ldg	9025
085°	TDZE	3940
	Apt Elev	3962

RNP AR APCH.
RF required.

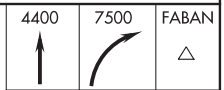
ASR For uncompensated Baro-VNAV systems, procedure NA below -5°C or above 54°C.

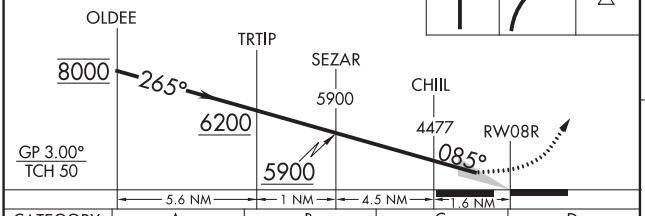
MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

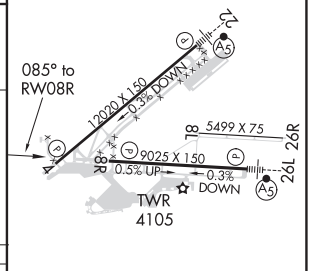




CATEGORY	A	B	C	D
RNP 0.20 DA	4193-¾ 253 (300-¾)			
RNP 0.30 DA	4234-⅞ 294 (300-⅞)			

AUTHORIZATION REQUIRED

ELEV 3962 D TDZE 3940



MIRL Rwys 8L-26R
HIRL Rwys 4-22 and 8R-26L
REIL Rwys 4 and 8R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (RNP) Z RWY 4

EL PASO INTL (ELP)

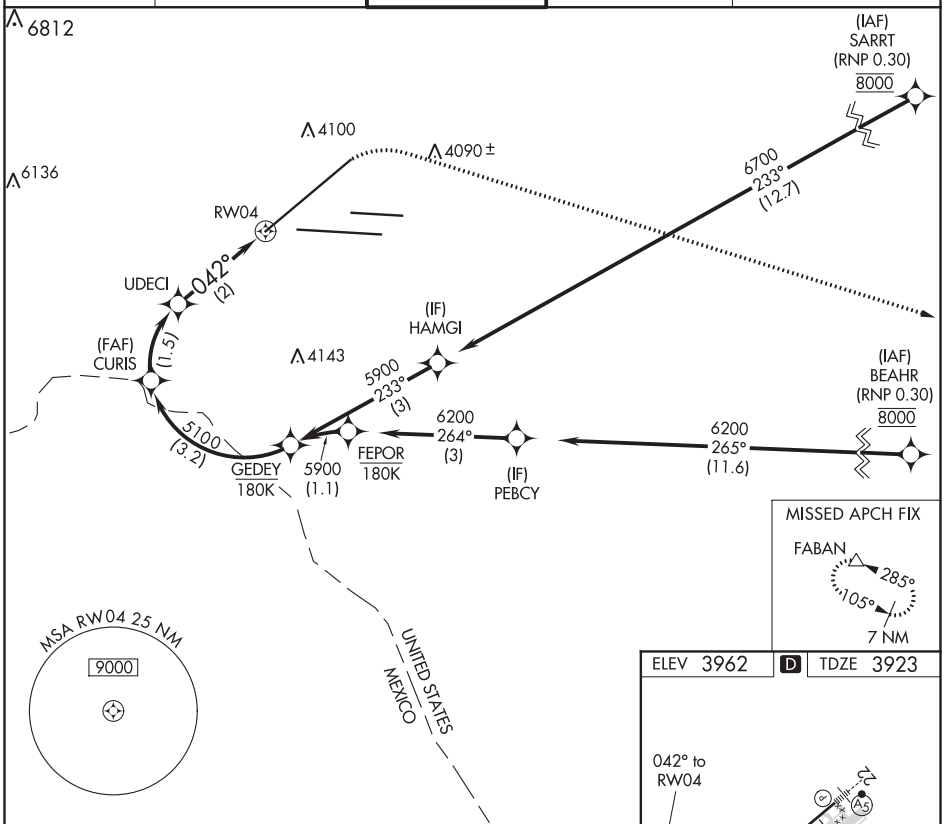
APP CRS	Rwy ldg	12020
042°	TDZE	3923
	Apt Elev	3962

RNP AR APCH. RF required.

ASR For uncompensated Baro-VNAV systems, procedure NA below -5°C or above 54°C.

MISSED APPROACH: Climb to 4400 then climbing right turn to 7500 direct FABAN and hold.

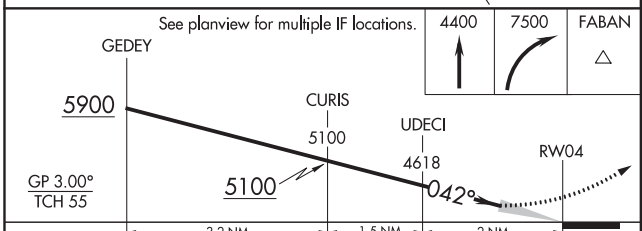
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1

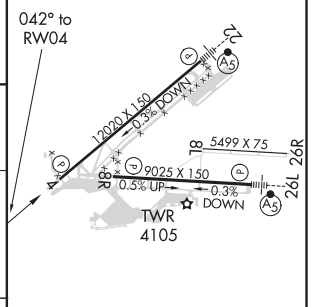


ELEV 3962 D TDZE 3923

See planvIew for multiple IF locations.

4400	7500	FABAN
↑	↗	△





CATEGORY	A	B	C	D
RNP 0.20 DA	4282/55 359 (400-1)			
RNP 0.30 DA	4352-1¼ 429 (400-1¼)			

AUTHORIZATION REQUIRED

MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

EL PASO, TEXAS | AL-134 (FAA) | 20310

RNAV (RNP) Z RWY 22
EL PASO INTL (ELP)

APP CRS	Rwy ldg	12020
222°	TDZE	3950
	Apt Elev	3962

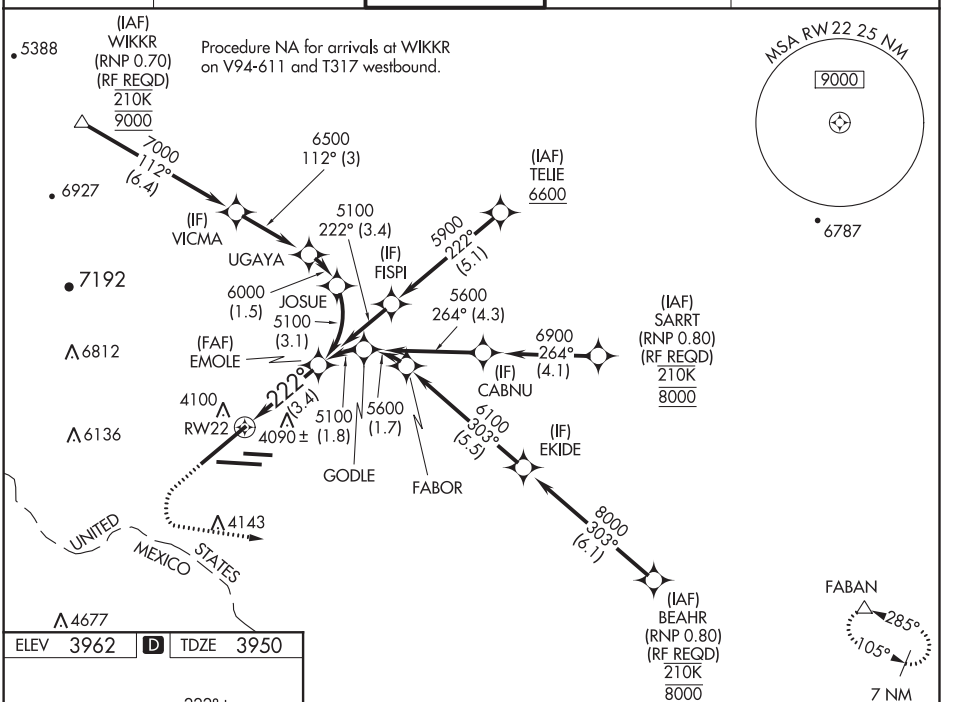
RNP AR APCH.

ASR For uncompensated Baro-VNAV systems, procedure NA below -8°C or above 54°C. For inop ALS, increase RNP 0.10 all Cats visibility to RVR 4000 and RNP 0.30 all Cats visibility to RVR 4500.

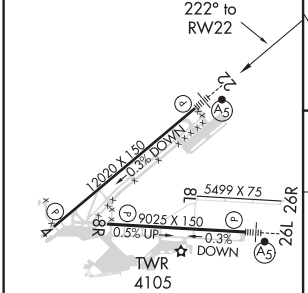
MALSR

MISSED APPROACH: Climb to 4400 then climbing left turn to 7500 direct FABAN and hold.

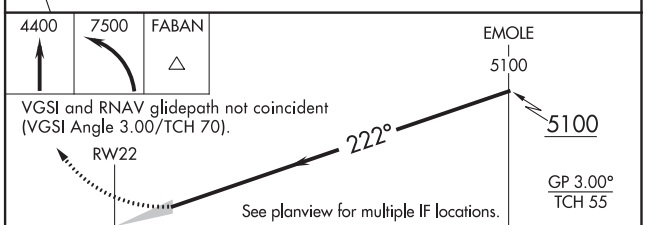
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



ELEV 3962 | D | TDZE 3950



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L



CATEGORY	A	B	C	D
RNP 0.10 DA	4200/24		250 (300-½)	
RNP 0.30 DA	4270/27		320 (400-⅝)	

AUTHORIZATION REQUIRED

EL PASO, TEXAS
Amdt 1B 05NOV20

31°48′N-106°23′W

EL PASO INTL (ELP)
RNAV (RNP) Z RWY 22

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	9025
265°	TDZE	3962
	Apt Elev	3962

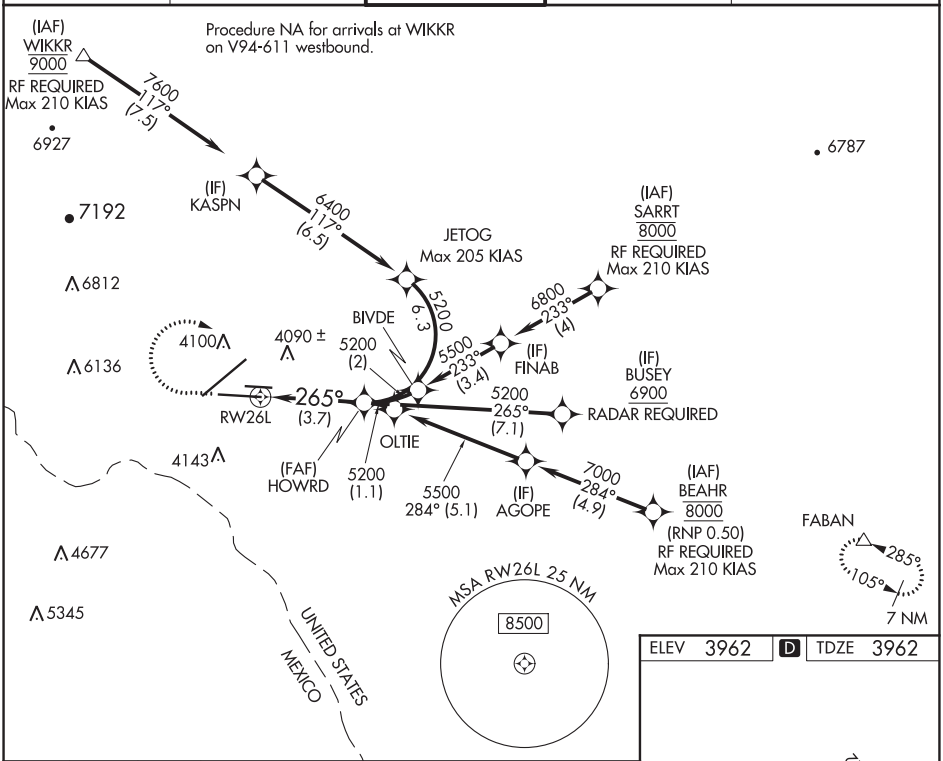
RNAV (RNP) Z RWY 26L
EL PASO INTL (ELP)

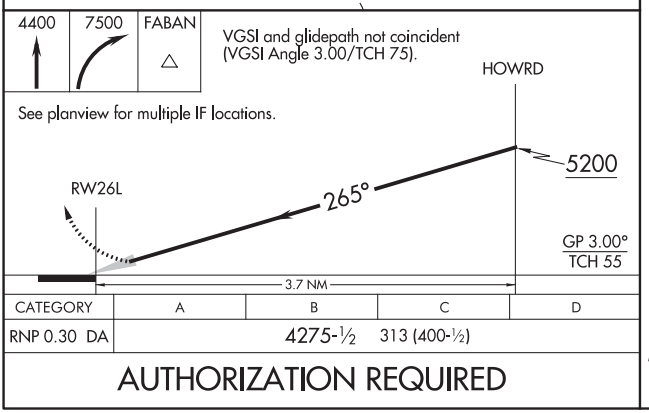
ASR: For uncompensated Baro-VNAV systems, procedure NA below -8°C (18°F) or above 50°C (122°F). For inop MALSR, increase RNP 0.30 visibility all Cats to 1 mile. GPS Required.

MALSR A5

MISSED APPROACH: Climb to 4400, then climbing right turn to 7500 direct FABAN and hold.

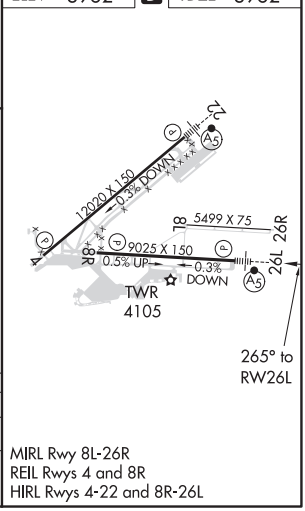
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1





CATEGORY	A	B	C	D
RNP 0.30 DA	4275-½ 313 (400-½)			

AUTHORIZATION REQUIRED



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

EL PASO, TEXAS

AL-134 (FAA)

20310

RNAV (GPS) RWY 26R
EL PASO INTL (ELP)

APP CRS	Rwy ldg	5499
265°	TDZE	3950
	Apt Elev	3962

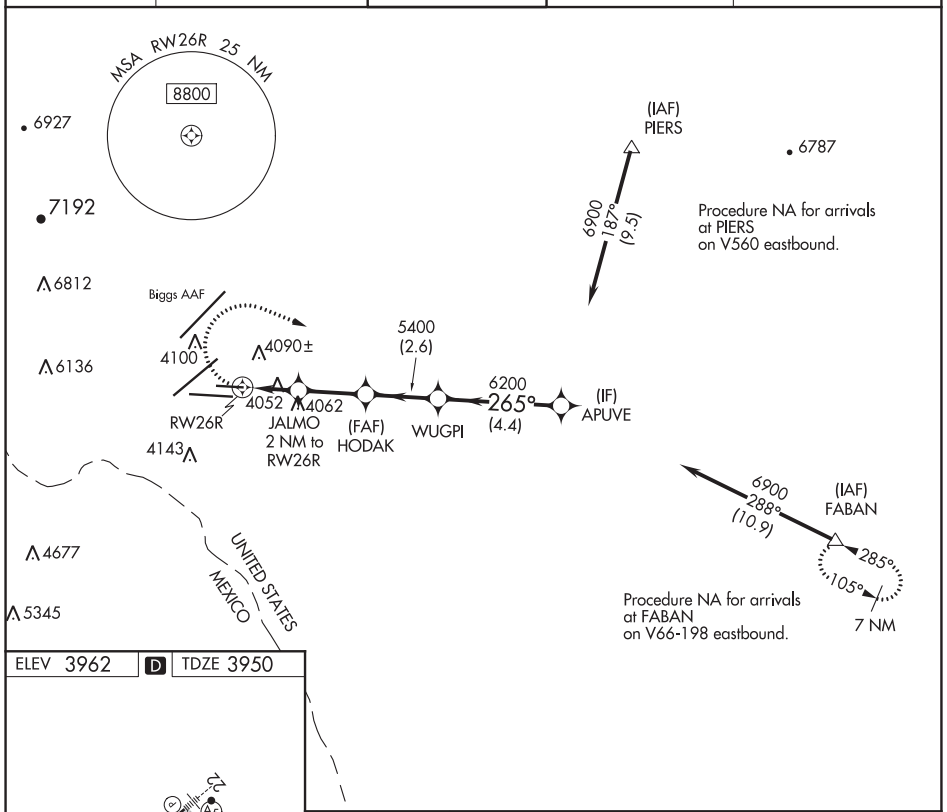
RNP APCH.

Circling NA for Cat D north of Rwy 26R and northwest of Rwy 4. Rwy 26R helicopter visibility reduction below ¾ SM NA.

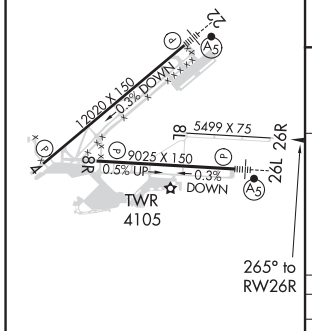
ASR

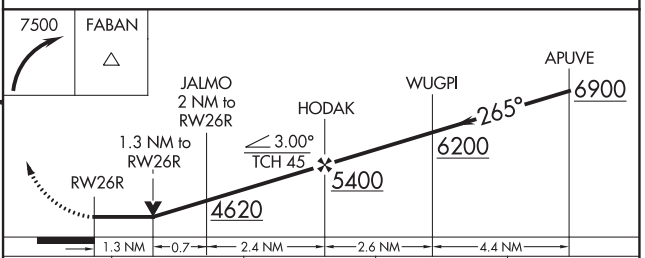
MISSED APPROACH: Climbing right turn 7500 direct FABAN and hold.

D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



ELEV 3962 | D | TDZE 3950





CATEGORY	A	B	C	D
LNAV MDA	4400-1 450 (500-1)		4400-1⅜ 450 (500-1⅜)	
C CIRCLING	4420-1 458 (500-1)	4440-1 478 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)

MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) X RWY 4

EL PASO INTL (ELP)

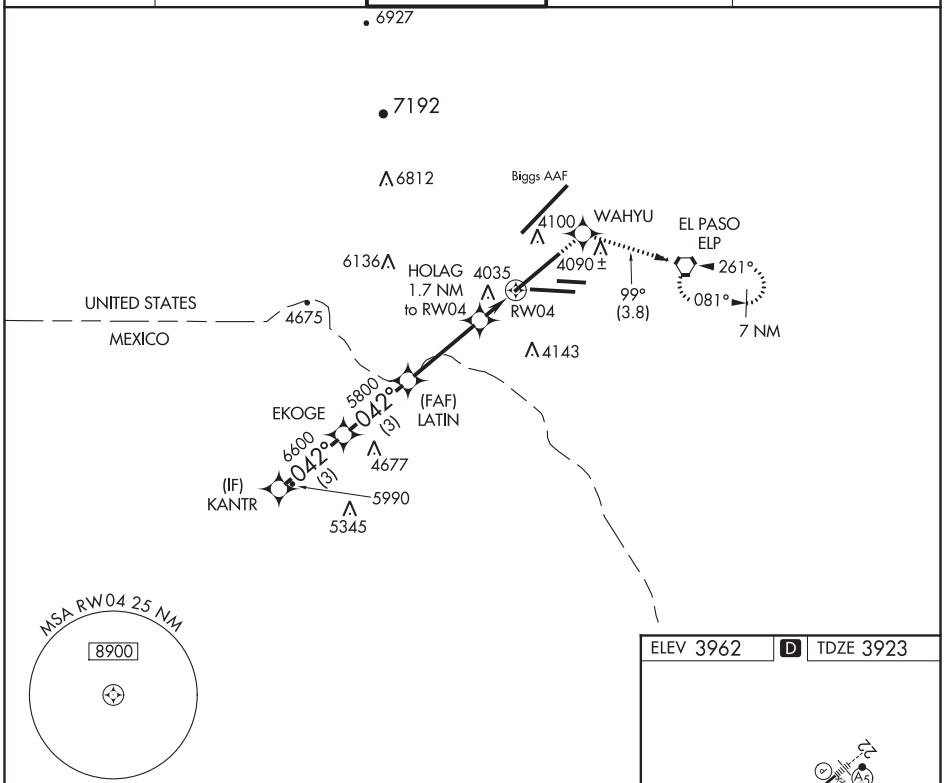
APP CRS	Rwy ldg	12020
042°	TDZE	3923
	Apt Elev	3962

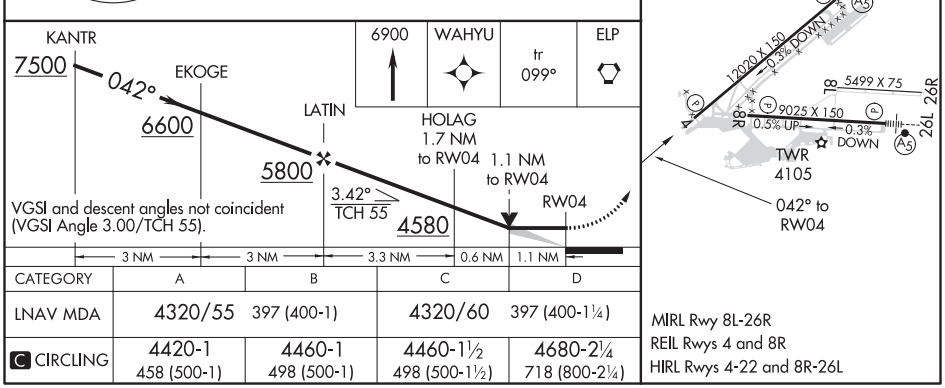
RNP APCH.

T A ASR — Circling NA for Cat D north of Rwy 26R and northwest of Rwy 4.

MISSED APPROACH: Climb to 6900 direct WAHYU and on track 099° to ELP VORTAC and hold, continue climb-in-hold to 6900.

D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1





CATEGORY	A	B	C	D
LNAV MDA	4320/55 397 (400-1)		4320/60 397 (400-1¼)	
C CIRCLING	4420-1 458 (500-1)	4460-1 498 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)

MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) Y RWY 22
EL PASO INTL (ELP)

APP CRS	Rwy ldg	12020
222°	TDZE	3950
	Apt Elev	3962

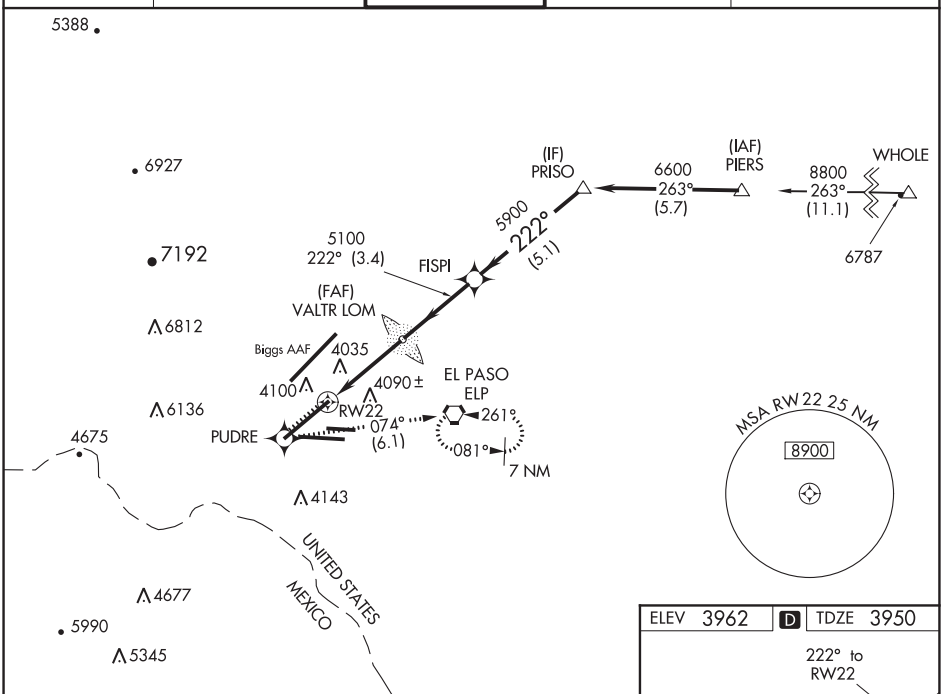
RNP APCH.

T A ASR — Circling NA for Cat D north of Rwy 26R and northwest of Rwy 4. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -9°C or above 54°C. For inop ALS increase LNAV/VNAV Cat D visibility to RVR 5000 and LNAV Cat C/D visibility to RVR 5500.

MALSR

MISSED APPROACH: Climb to 4600 direct PUDRE and climbing left turn to 6900 on track 074° to ELP VORTAC and hold.

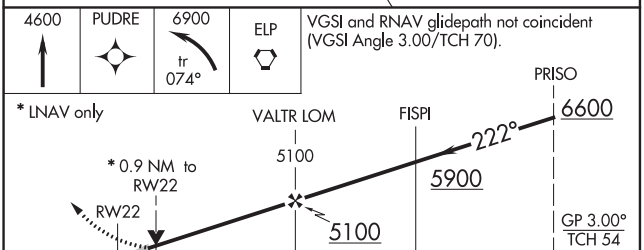
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



SC-3, 25 FEB 2021 to 22 APR 2021

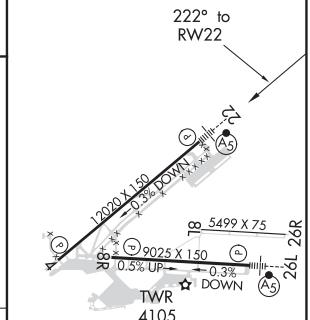
4600	PUDRE	6900 tr 074°	ELP

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 70).



CATEGORY	A	B	C	D
LNAV/VNAV DA	4274/26 324 (400-½)			4274/40 324 (400-¾)
LNAV MDA	4300/24 350 (400-½)		4300/30 350 (400-⅝)	4300/50 350 (400-1)
C CIRCLING	4420-1 458 (500-1)	4440-1 478 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)

ELEV 3962 D TDZE 3950



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 40223 W26A	APP CRS 265°	Rwy ldg 9025 TDZE 3962 Apt Elev 3962

RNAV (GPS) Y RWY 26L
EL PASO INTL (ELP)

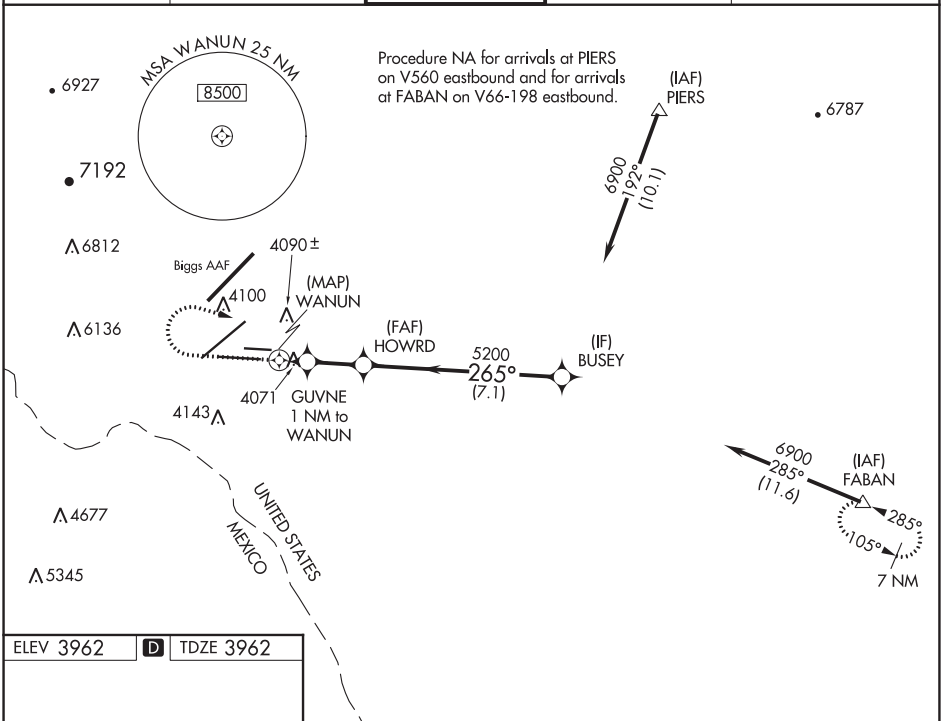
RNP APCH.

T A ASR — Circling NA for Cat D west of Rwy 4-22. For inop ALS, increase LP and LNAV Cat A/B visibility to 1 SM, and Cat C/D to 1⅛ SM.

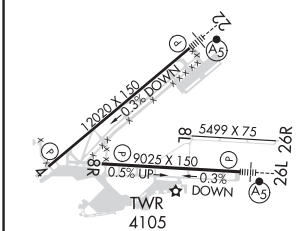
MALSR

MISSED APPROACH: Climb to 4380 then climbing right turn to 7500 direct FABAN and hold.

D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1



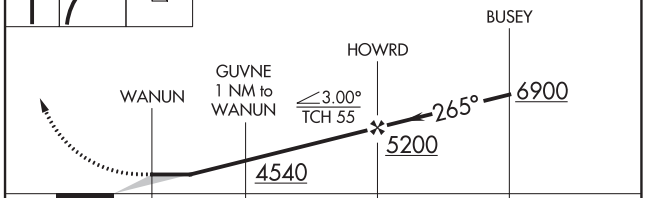
ELEV 3962 | D | TDZE 3962



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

4380 | 7500 | FABAN

VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 75).



CATEGORY	A	B	C	D
LP MDA	4380-¾ 418 (500-¾)			
LNAV MDA	4380-¾ 418 (500-¾)			
C CIRCLING	4420-1 458 (500-1)	4440-1 478 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)

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SC-3, 25 FEB 2021 to 22 APR 2021

EL PASO, TEXAS | AL-134 (FAA) | 20310

LOC/DME RWY 4
EL PASO INTL (ELP)

LOC/DME I-ETF	APP CRS	Rwy ldg	12020
111.5	042°	TDZE	3923
Chan 52		Apt Elev	3962

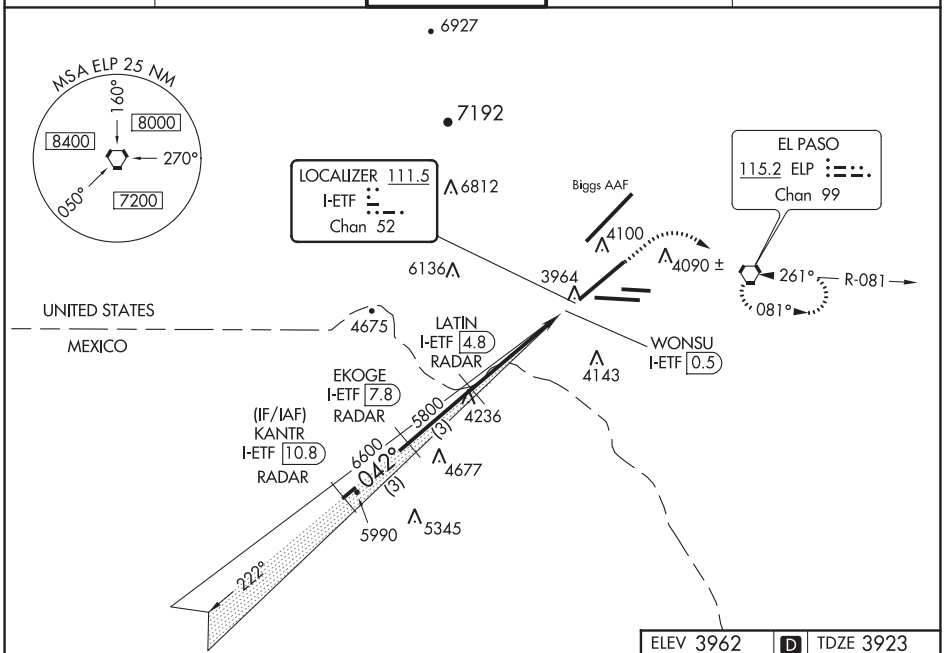
RADAR required for procedure entry.

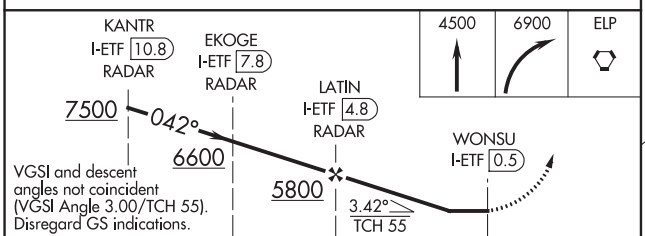
T A ASR

Circling NA for Cat D north of Rwy 26R and northwest of Rwy 4.

MISSED APPROACH: Climb to 4500 then climbing right turn to 6900 direct ELP VORTAC and hold, continue climb-in-hold to 6900.

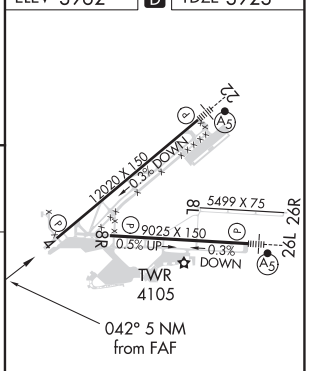
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1





VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 55). Disregard GS indications.

CATEGORY	A	B	C	D
S-4	4300/50 377 (400-1)			4300/60 377 (400-1¼)
C CIRCLING	4420-1 458 (500-1)	4460-1 498 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

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SC-3, 25 FEB 2021 to 22 APR 2021

VOR RWY 26L
EL PASO INTL (ELP)

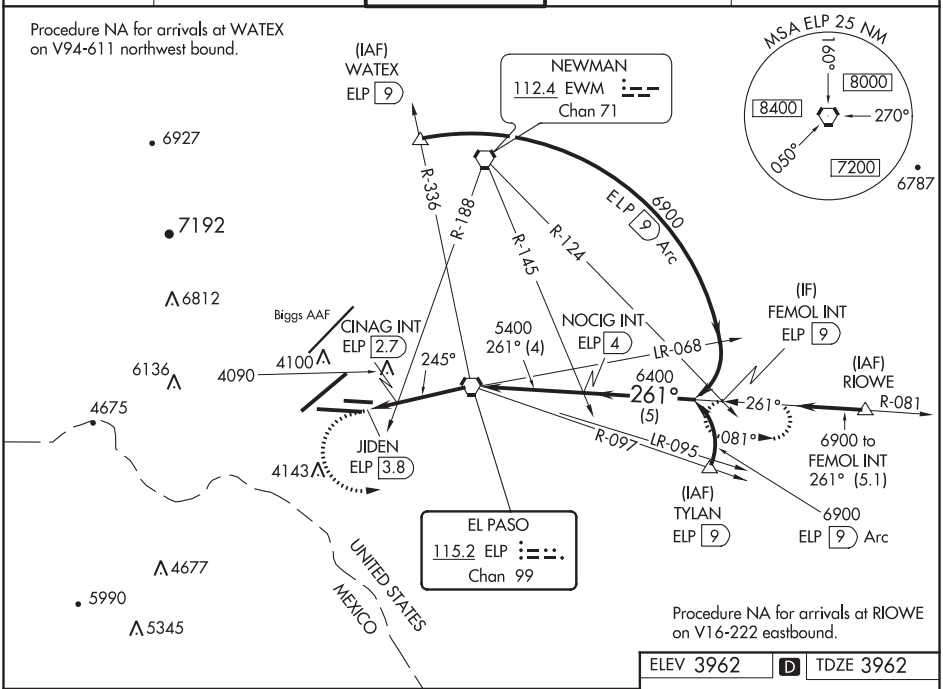
VORTAC ELP	APP CRS	Rwy ldg	9025
115.2	245°	TDZE	3962
Chan 99		Apt Elev	3962

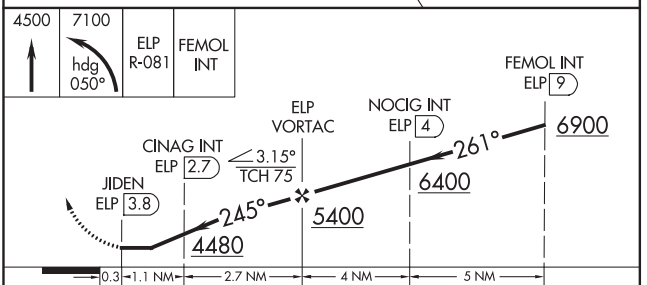
ASR: Circling NA for Cat D and E west of Rwy 4-22.

MALSR

MISSED APPROACH: Climb to 4500 then climbing left turn to 7100 on heading 050° and on ELP VORTAC R-081 to FEMOL INT/9 DME and hold.

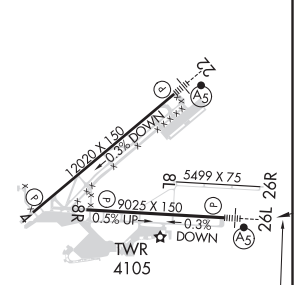
D-ATIS	EL PASO APP CON	EL PASO TOWER	GND CON	CLNC DEL
120.0 254.3	124.25 298.85	118.3 239.275	121.9 348.6	125.0 379.1





CATEGORY	A	B	C	D	E
S-26L	4480-1 518 (600-1)		4480-1⅜ 518 (600-1⅜)		
C CIRCLING	4480-1 518 (600-1)		4480-1½ 518 (600-1½)	4680-2 718 (800-2)	4700-2½ 738 (800-2½)
CINAG FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)					
S-26L	4340-1 378 (400-1)				
C CIRCLING	4420-1 458 (500-1)	4440-1 478 (500-1)	4460-1½ 498 (500-1½)	4680-2¼ 718 (800-2¼)	4700-2½ 738 (800-2½)

ELEV 3962 | D | TDZE 3962



MIRL Rwy 8L-26R
REIL Rwys 4 and 8R
HIRL Rwys 4-22 and 8R-26L

FAF to MAP 3.8 NM					
Knots	60	90	120	150	180
Min:Sec	3:48	2:32	1:54	1:31	1:16

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SC-3, 25 FEB 2021 to 22 APR 2021

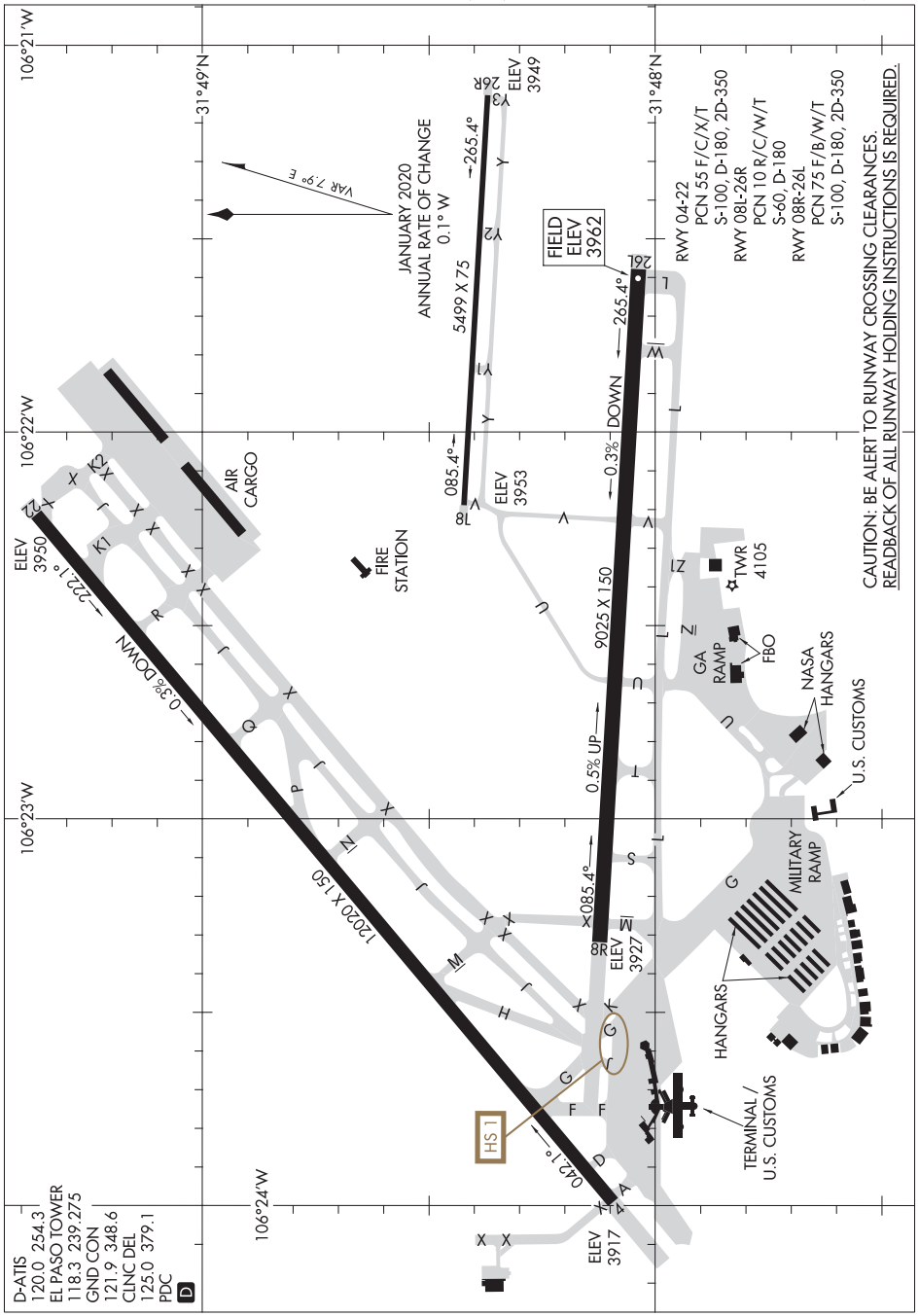
21056

AIRPORT DIAGRAM

AL-134 (FAA)

EL PASO INTL (ELP)

EL PASO, TEXAS



AIRPORT DIAGRAM

21056

EL PASO, TEXAS

EL PASO INTL (ELP)

SC-3, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS

Rwy 8R: FLOGS and NOCHI transitions standard with minimum climb of 500′ per NM to 6000. GREBE and SLNNK transitions standard with minimum climb of 500′ per NM to 13500.

Rwy 22: FLOGS and NOCHI transitions standard with minimum climb of 515′ per NM to 7200. GREBE and SLNNK transitions standard with minimum climb of 515′ per NM to 13500.

Rwy 26L: FLOGS and NOCHI transitions standard with minimum climb of 570′ per NM to 6800. GREBE and SLNNK TRANSITIONS standard with minimum climb of 570′ per NM to 13500.

NOTE: Takeoff Rwy 8R, do not exceed 220K until passing JAPOD.

NOTE: Takeoff Rwy 26L, do not exceed 220K until passing 4462.

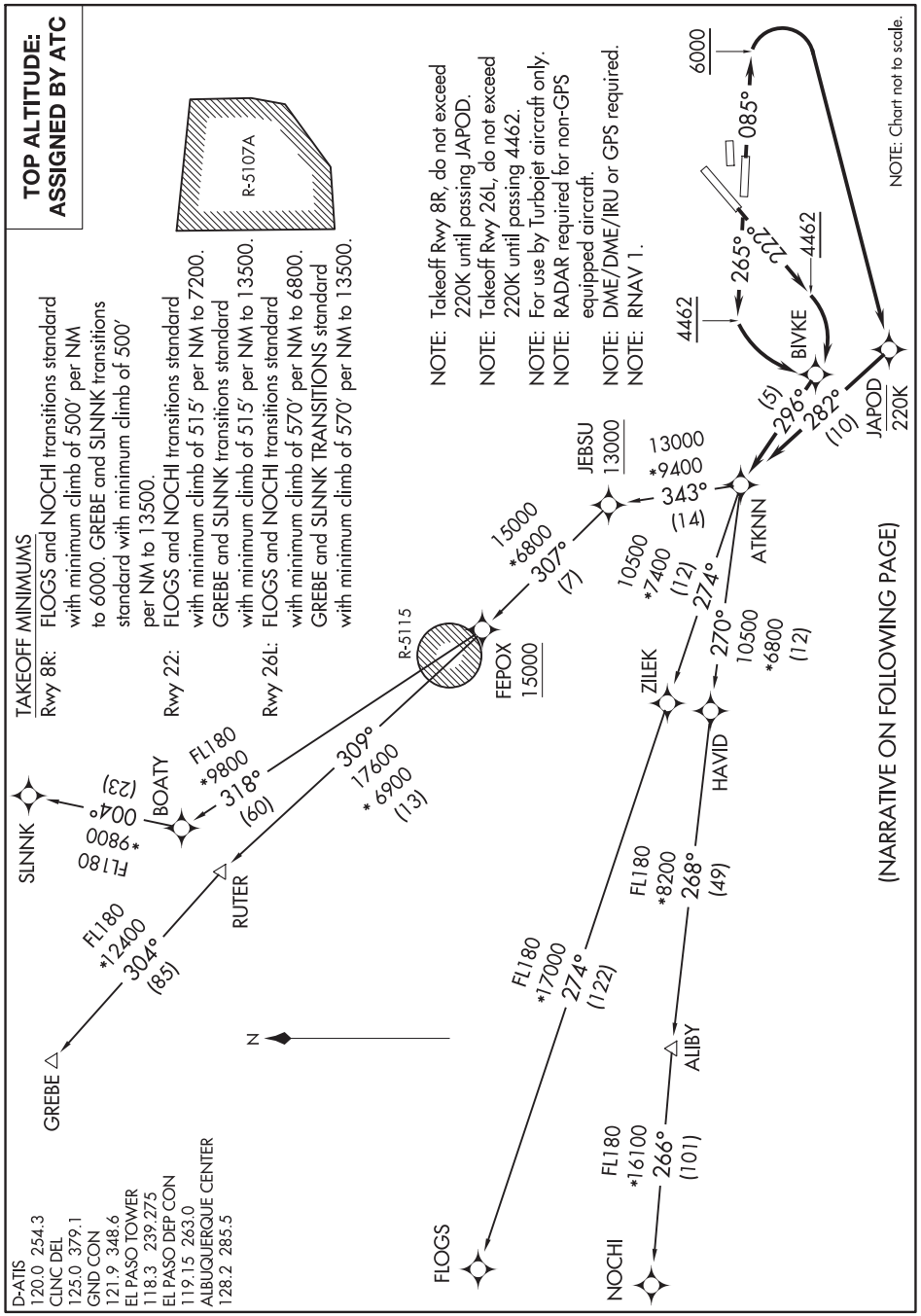
NOTE: For use by Turbojet aircraft only.

NOTE: RADAR required for non-GPS equipped aircraft.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1.

NOTE: Chart not to scale.



SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 8R: Climb heading 085° to 6000, then right turn direct JAPOD, then on depicted route to ATKNN, thence . . .
TAKEOFF RWY 22: Climb heading 222° to 4462, then right turn direct BIVKE, then on depicted route to ATKNN, thence . . .
TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct BIVKE, then on depicted route to ATKNN, thence . . .

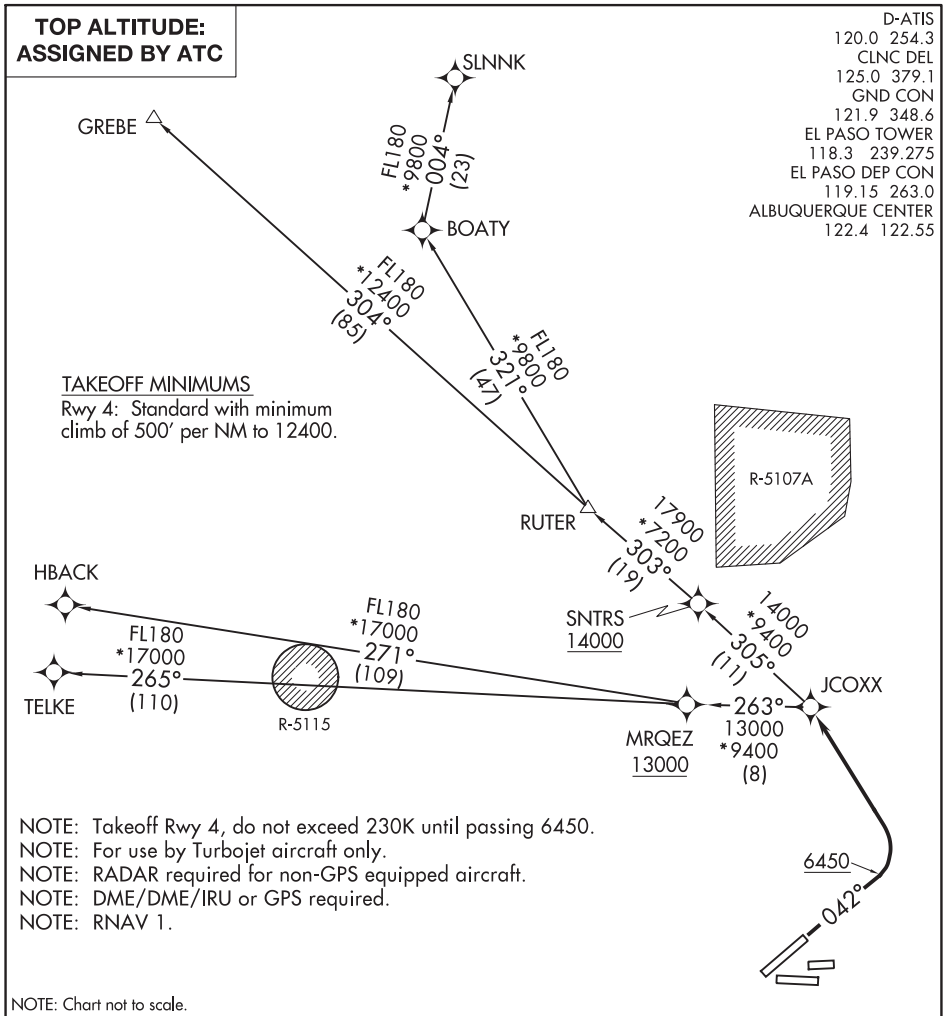
. . . (transition). Maintain altitude as assigned by ATC, expect filed altitude 10 minutes after departure.

FLOGS TRANSITION (ATKNN5.FLOGS)
GREBE TRANSITION (ATKNN5.GREBE)
NOCHI TRANSITION (ATKNN5.NOCHI)
SLNNK TRANSITION (ATKNN5.SLNNK)

SC-3, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

D-ATIS
120.0 254.3
CLNC DEL
125.0 379.1
GND CON
121.9 348.6
EL PASO TOWER
118.3 239.275
EL PASO DEP CON
119.15 263.0
ALBUQUERQUE CENTER
122.4 122.55



TAKEOFF MINIMUMS
Rwy 4: Standard with minimum climb of 500′ per NM to 12400.

NOTE: Takeoff Rwy 4, do not exceed 230K until passing 6450.
NOTE: For use by Turbojet aircraft only.
NOTE: RADAR required for non-GPS equipped aircraft.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 6450, then left turn direct JCOXX, thence. . .

. . .(transition). Maintain altitude as assigned by ATC, expect filed altitude 10 minutes after departure.

GREBE TRANSITION (JCOXX2.GREBE)
HBACK TRANSITION (JCOXX2.HBACK)
SLNNK TRANSITION (JCOXX2.SLNNK)
TELKE TRANSITION (JCOXX2.TELKE)

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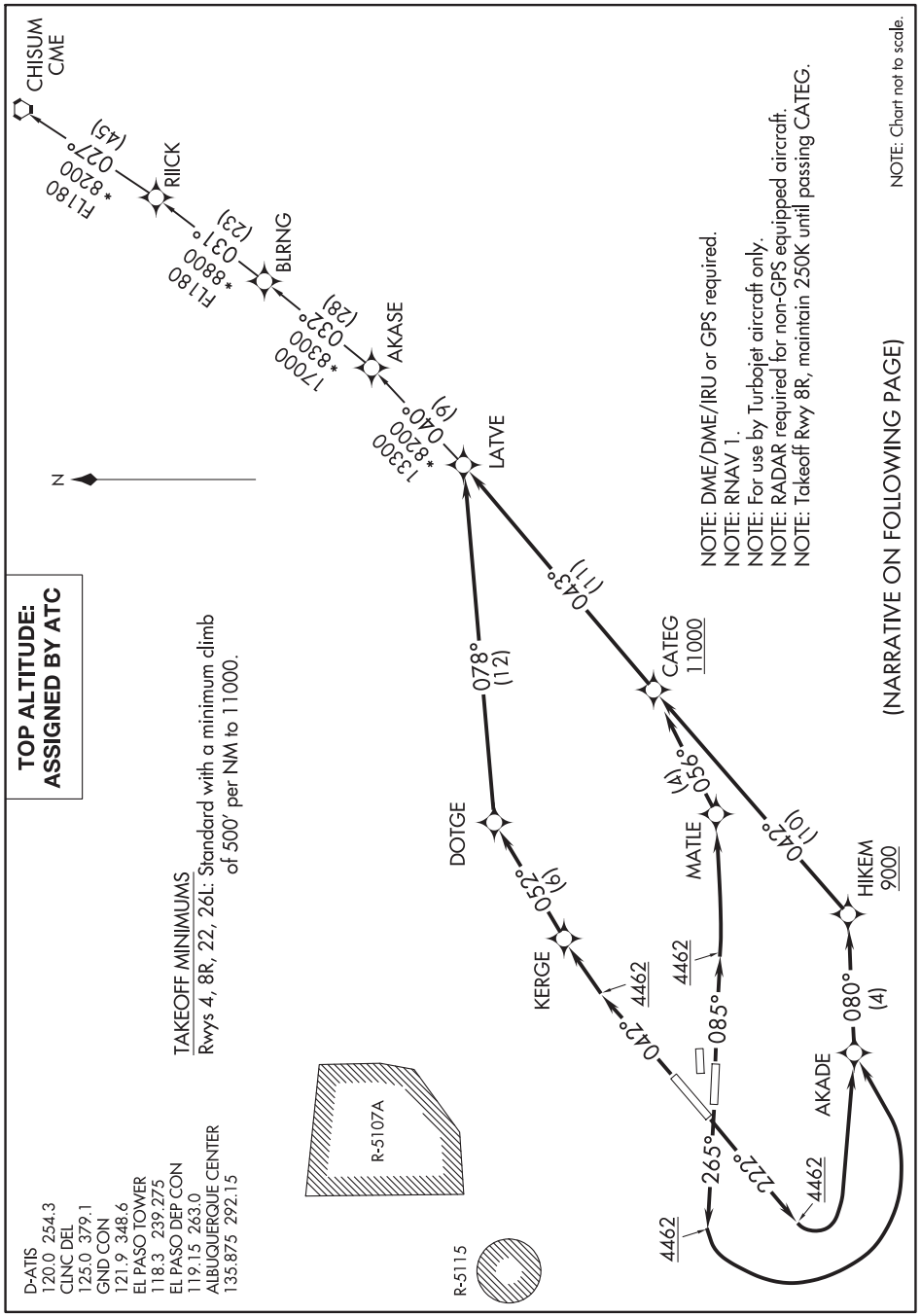
SC-3, 25 FEB 2021 to 22 APR 2021

(LATVE3.LATVE) 20030

AL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

LATVE THREE DEPARTURE (RNAV)



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

LATVE THREE DEPARTURE (RNAV)

(LATVE3.LATVE) 21JUL16

EL PASO, TEXAS
EL PASO INTL (ELP)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then direct KERGE, then on track 052° to DOTGE, then on track 078° to LATVE. Thence. . . .
TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct MATLE, then on track 056° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .
TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 042° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .
TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 042° to cross CATEG at or above 11000, then on track 043° to LATVE. Thence. . . .

. . . .on depicted route to CME VORTAC.

CHISUM TRANSITION (LATVE3.CME)

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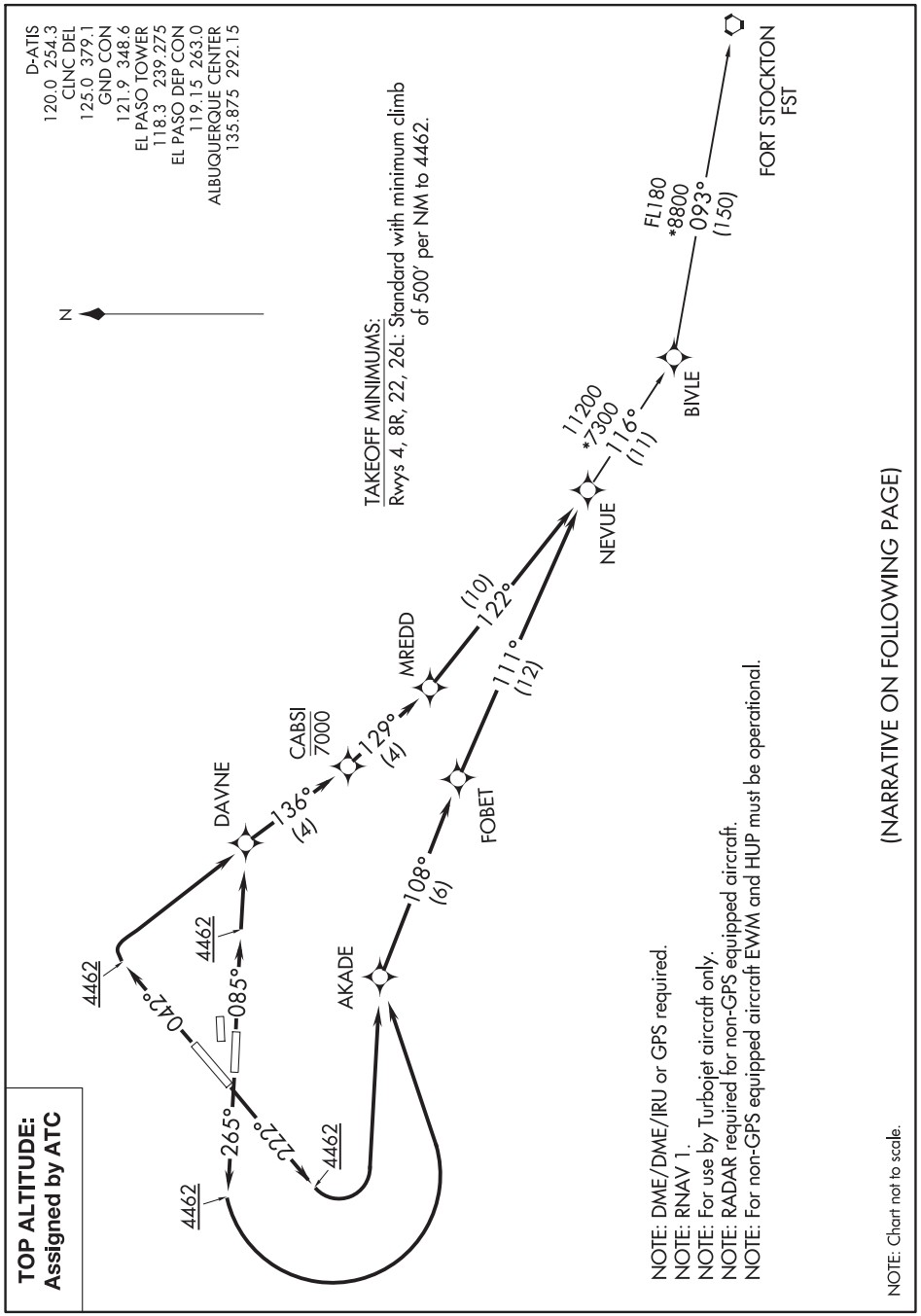
SC-3, 25 FEB 2021 to 22 APR 2021

(NEVUE3.NEVUE) 18032

AL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

NEVUE THREE DEPARTURE(RNAV)



SC-3, 25 FEB 2021 to 22 APR 2021

NEVUE THREE DEPARTURE(RNAV)

(NEVUE3.NEVUE) 21JUL16

EL PASO, TEXAS
EL PASO INTL (ELP)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then right turn direct DAVNE, then on track 136° to cross CABSI at or below 7000, then on track 129° to MREDD, then on track 122° to NEUVE. Thence. . . .
TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct DAVNE, then on track 136° to cross CABSI at or below 7000, then on track 129° to MREDD, then on track 122° to NEUVE. Thence. . . .
TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 108° to FOBET, then on track 111° to NEVUE. Thence. . . .
TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 108° to FOBET, then on track 111° to NEVUE. Thence. . . .

. . . .on depicted route to FST VORTAC.

FT STOCKTON TRANSITION (NEVUE3.FST)

SC-3, 25 FEB 2021 to 22 APR 2021
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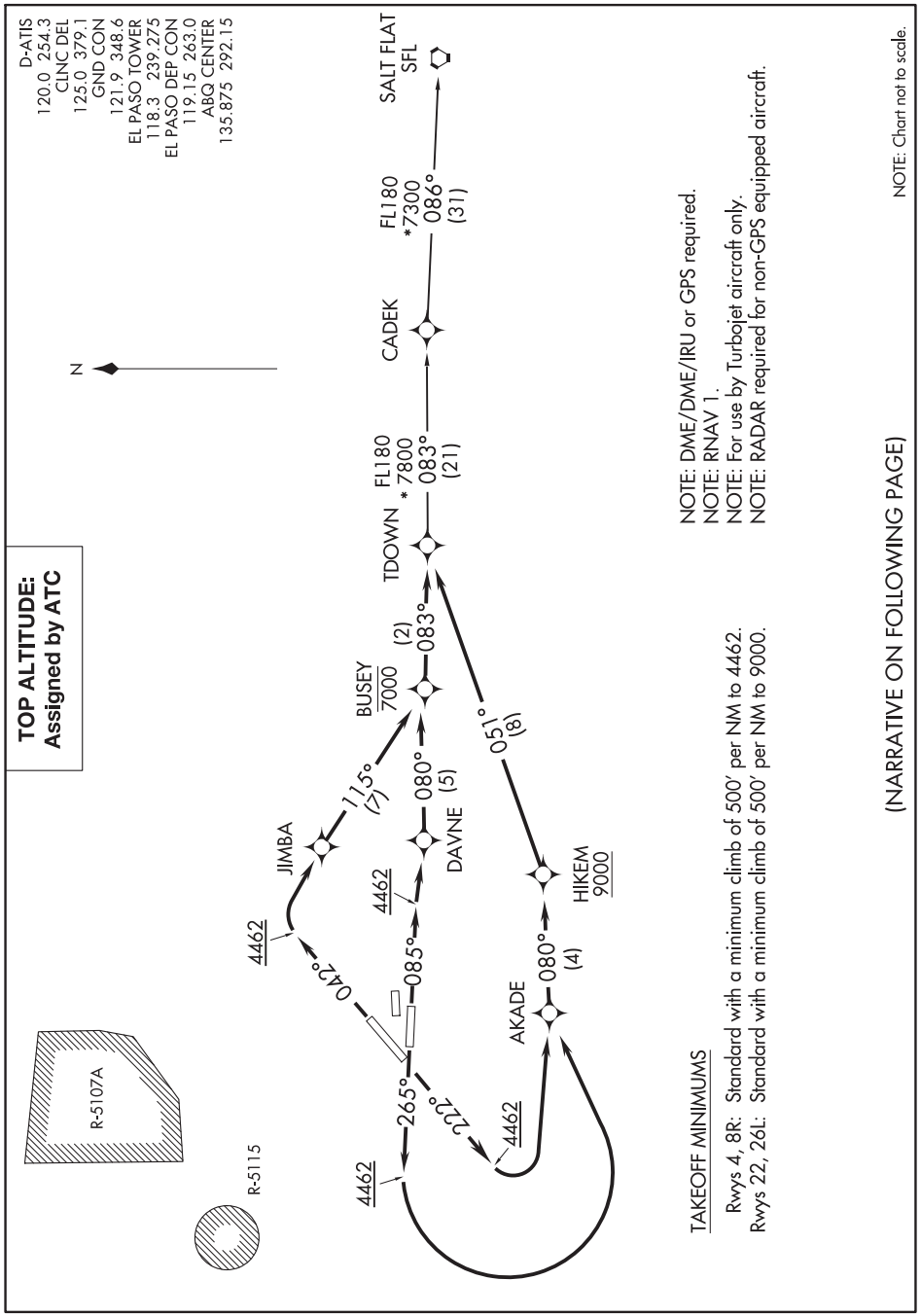
(TDOWN3.TDOWN) 18032 AL-134 (FAA)

EL PASO INTL (ELP)
EL PASO, TEXAS

TDOWN THREE DEPARTURE (RNAV)



SC-3, 25 FEB 2021 to 22 APR 2021

TDOWN THREE DEPARTURE (RNAV)

(TDOWN3.TDOWN) 21JUL16

EL PASO, TEXAS
EL PASO INTL (ELP)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 042° to 4462, then right turn direct JIMBA, then on track 115° to cross BUSEY at or below 7000, then on track 083° to TDOWN. Thence . . . .
TAKEOFF RWY 8R: Climb heading 085° to 4462, then direct DAVNE, then on track 080° to cross BUSEY at or below 7000, then on track 083° to TDOWN. Thence . . . .
TAKEOFF RWY 22: Climb heading 222° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 051° to TDOWN. Thence . . . .
TAKEOFF RWY 26L: Climb heading 265° to 4462, then left turn direct AKADE, then on track 080° to cross HIKEM at or above 9000, then on track 051° to TDOWN. Thence . . . .

. . . . on depicted route to SFL VORTAC.

SALT FLAT TRANSITION (TDOWN3.SFL)

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

FALFURRIAS, TEXAS

AL-6117 (FAA)

20366

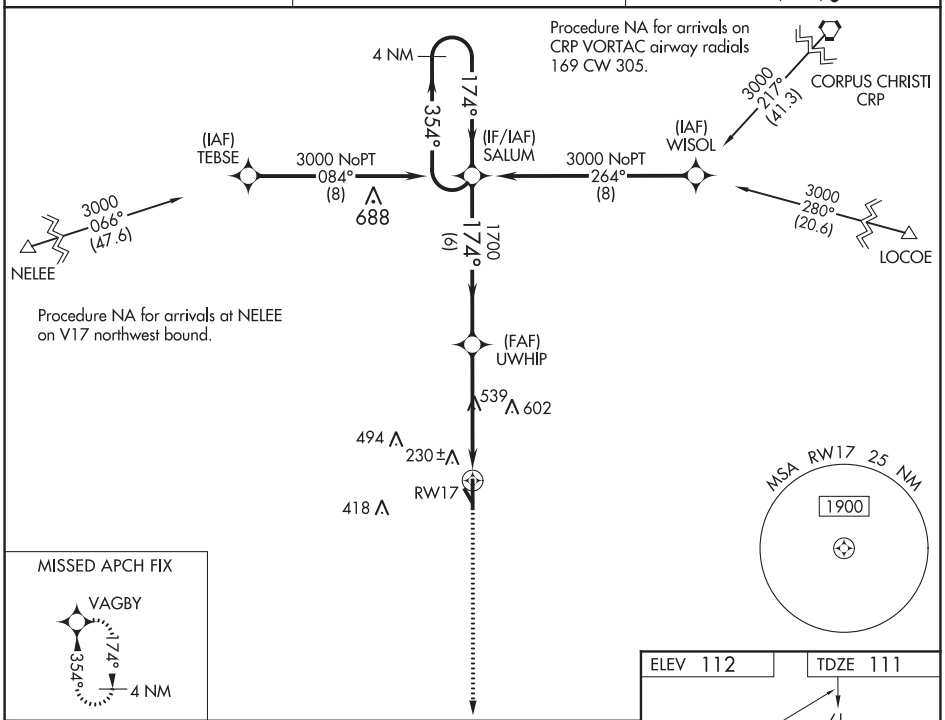
RNAV (GPS) RWY 17
BROOKS COUNTY (BKS)

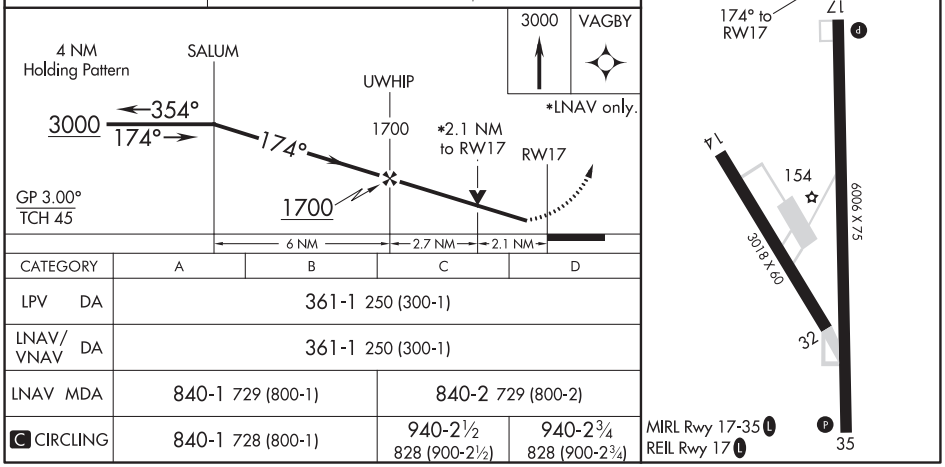
WAAS CH 53640 W17A	APP CRS 174°	Rwy ldg 6006 TDZE 111 Apt Elev 112

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F).
Circling Rwy 14 NA at night. Rwy 17 helicopter visibility reduction below ¾ SM NA.
DME/DME RNP-0.3 NA. Circling NA for Cat D west of Rwy 17-35.

MISSED APPROACH: Climb to 3000 direct VAGBY and hold.

AWOS-3	KINGSVILLE APP CON ★	UNICOM
118.125	119.9 290.45	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	361-1 250 (300-1)			
LNAV/VNAV DA	361-1 250 (300-1)			
LNAV MDA	840-1 729 (800-1)		840-2 729 (800-2)	
C CIRCLING	840-1 728 (800-1)		940-2½ 828 (900-2½)	940-2¾ 828 (900-2¾)

FALFURRIAS, TEXAS
Amdt 1 17AUG17

27°12′N-98°07′W

BROOKS COUNTY (BKS)
RNAV (GPS) RWY 17

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

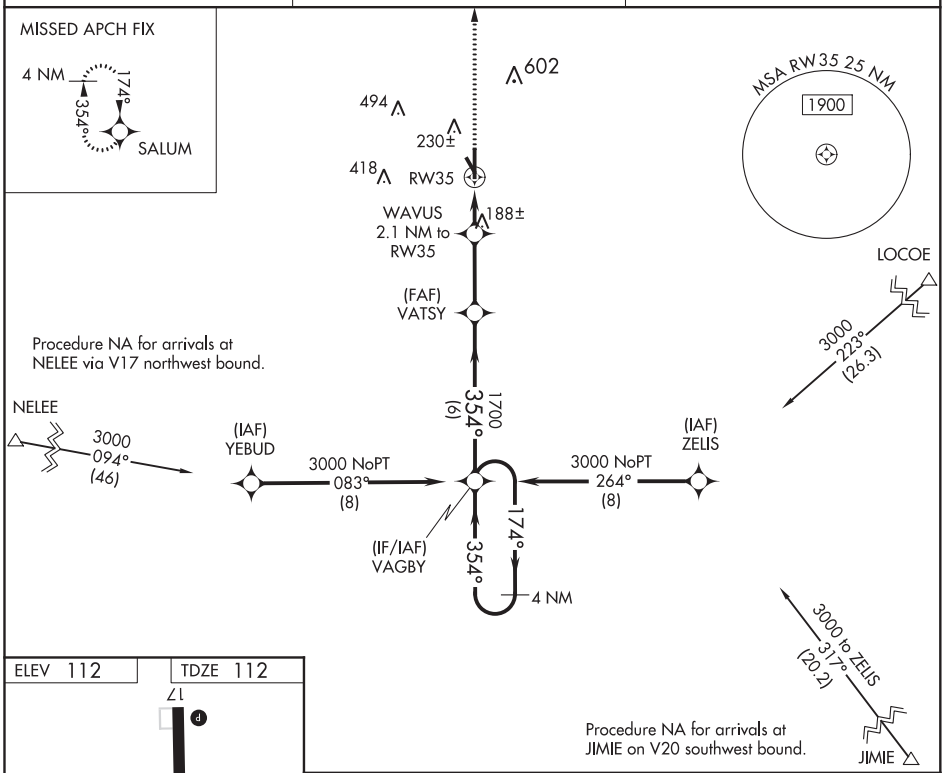
WAAS CH 49140 W35A	APP CRS 354°	Rwy ldg 6006 TDZE 112 Apt Elev 112

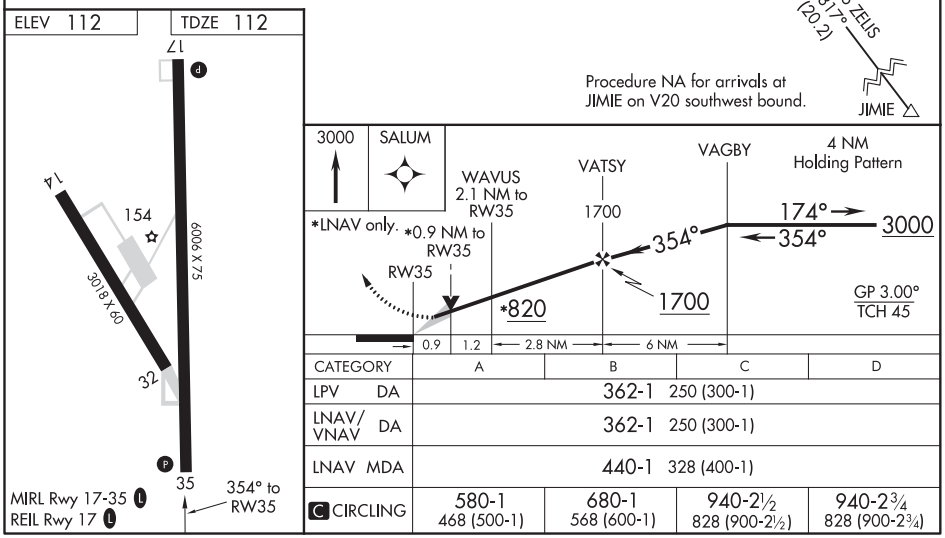
RNAV (GPS) RWY 35
BROOKS COUNTY (BKS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling Rwy 14 NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct SALUM and hold.

AWOS-3	KINGSVILLE APP CON ★	UNICOM
118.125	119.9 290.45	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	362-1 250 (300-1)			
LNAV/VNAV DA	362-1 250 (300-1)			
LNAV MDA	440-1 328 (400-1)			
C CIRCLING	580-1 468 (500-1)	680-1 568 (600-1)	940-2½ 828 (900-2½)	940-2¾ 828 (900-2¾)

MIRL Rwy 17-35 L
REIL Rwy 17 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

FORT HOOD/KILLEEN, TEXAS

AL-906 (FAA)

18312

ILS or LOC RWY 15
ROBERT GRAY AAF (GRK)

LOC I-GRK	APP CRS	Rwy ldg	9997
111.1	153°	TDZE	1015
		Apt Elev	1015

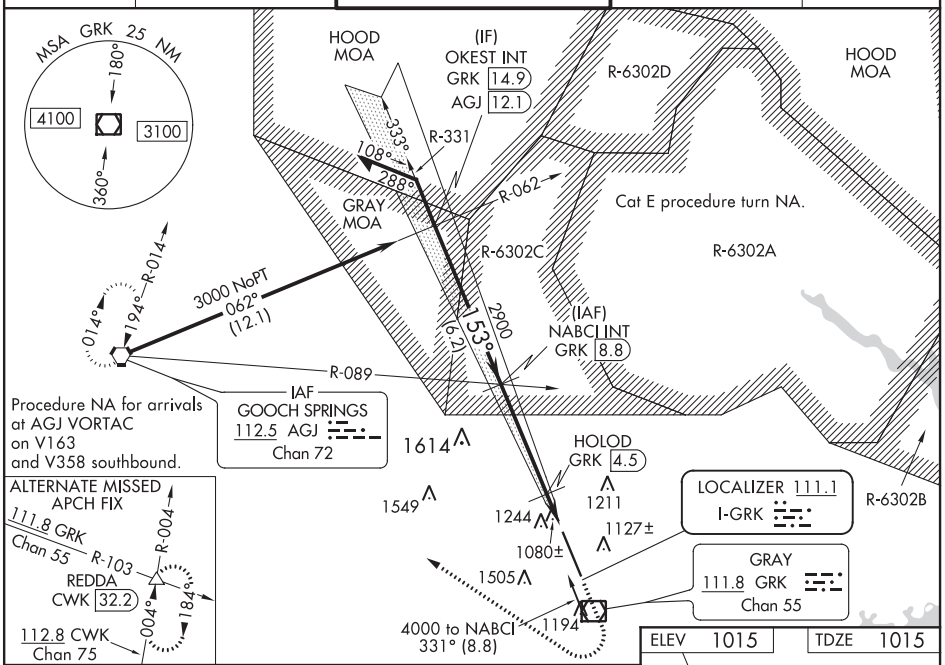
T A ASR/PAR

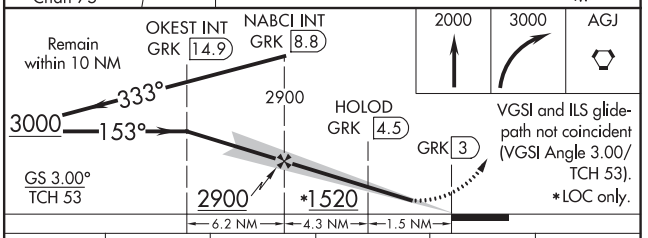
Circling NA west of Rwy 15-33. For inop ALS, increase S-ILS 15 Cat E visibility to RVR 4000, S-LOC 15 Cats C/D/E visibility to 1⅜ SM, and HOLOD FIX minimums S-LOC 15 Cats C/D/E visibility to RVR 5500. DME from GRK VOR/DME. Simultaneous reception of I-GRK and GRK VOR/DME required.
#RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR A5

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

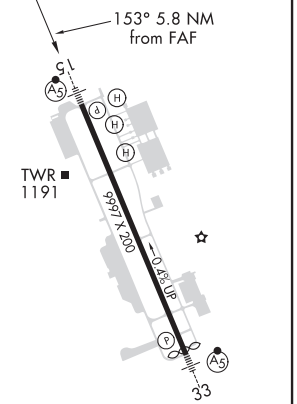
ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1





CATEGORY	A	B	C	D	E
S-ILS 15 #	1215/24 200 (200-½)				
S-LOC 15	1520/24 505 (600-½)		1520/55 505 (600-1)		
C CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)
HOLOD FIX MINIMUMS (DME REQUIRED)					
S-LOC 15	1380/24 365 (400-½)		1380/35 365 (400-⅝)		
C CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)

ELEV 1015 | TDZE 1015



HIRL Rwy 15-33

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

ILS or LOC RWY 33
ROBERT GRAY AAF (GRK)

LOC/DME I-BTJ	APP CRS	Rwy ldg	9803
109.35	333°	TDZE	995
Chan 30 (Y)		Apt Elev	1015

DME or RADAR required.

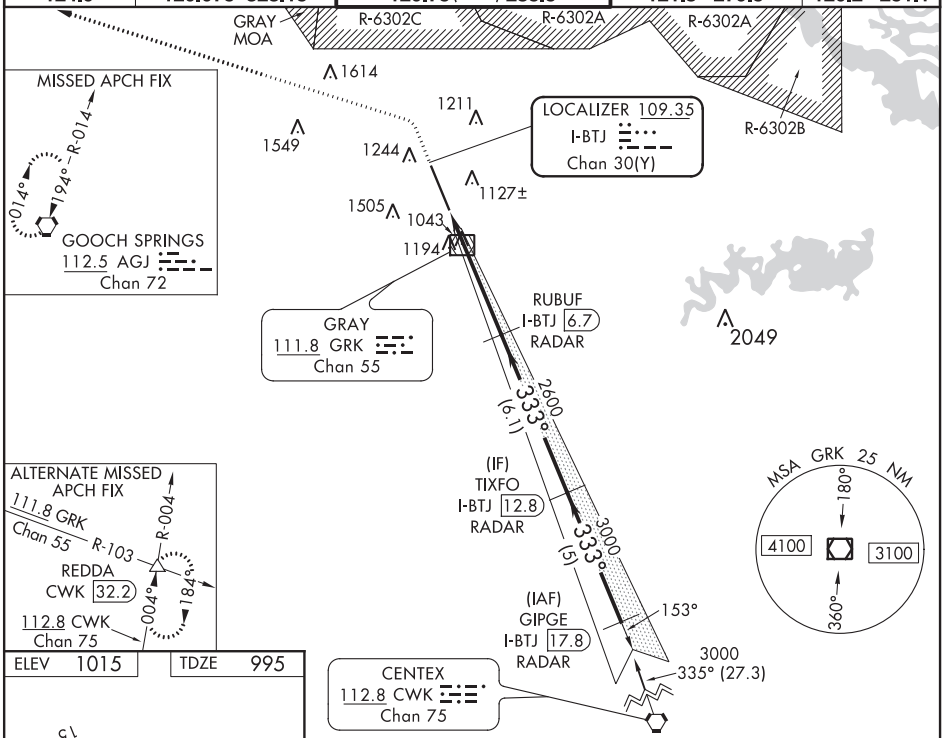
Circling NA west of Rwy 15-33. For inop ALS, increase S-ILS 33 Cat E visibility to ¾ SM and S-LOC 33 Cat C/D/E visibility to 1 SM.

ASR/PAR

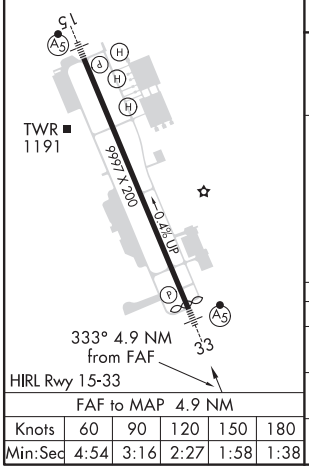
MALSR

MISSED APPROACH: Climb to 2000 then climbing left turn to 3000 direct AGJ VORTAC and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 (CTAF) 285.5	121.8 279.5	126.2 251.1

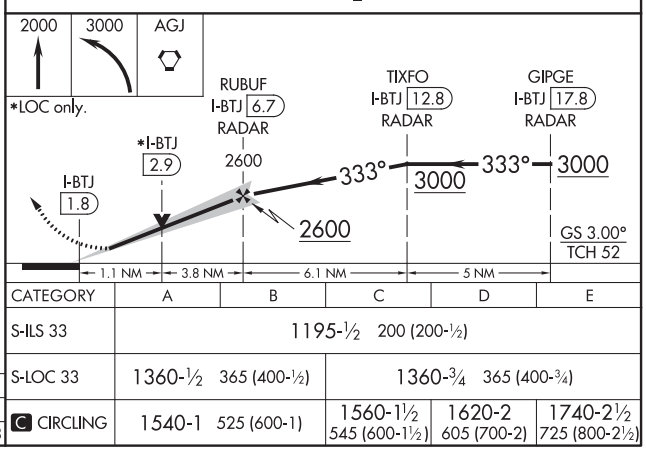


ELEV 1015	TDZE 995



FAF to MAP 4.9 NM

Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



CATEGORY	A	B	C	D	E
S-ILS 33	1195-½ 200 (200-½)				
S-LOC 33	1360-½ 365 (400-½)		1360-¾ 365 (400-¾)		
C CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)

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FORT HOOD/KILLEEN, TEXAS | AL-906 (FAA) | 18312

WAAS CH 78099 W15A	APP CRS 153°	Rwy ldg 9997 TDZE 1015 Apt Elev 1015

RNAV (GPS) RWY 15
ROBERT GRAY AAF (GRK)

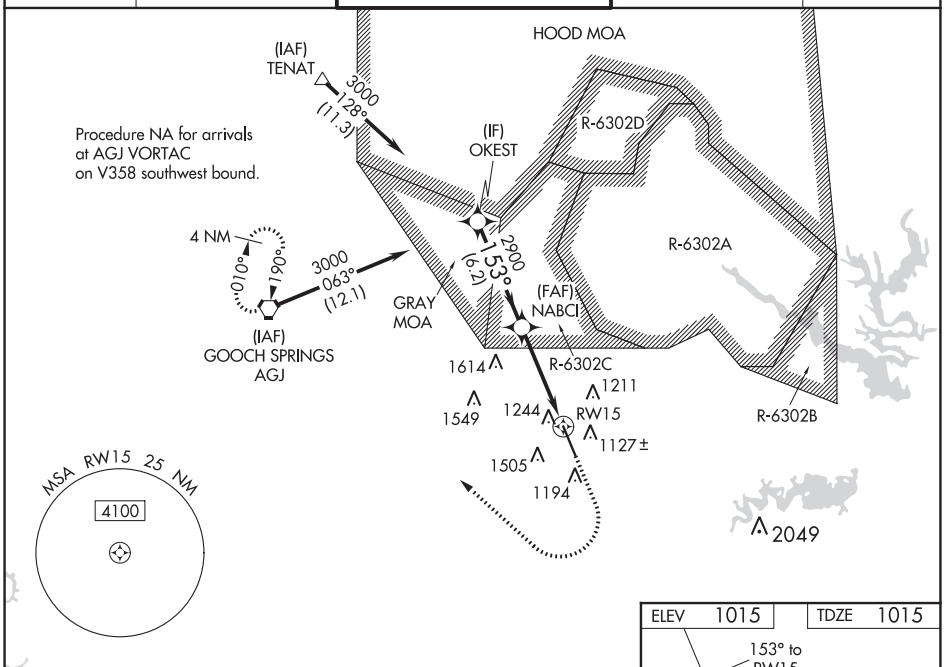
ASR/PAR

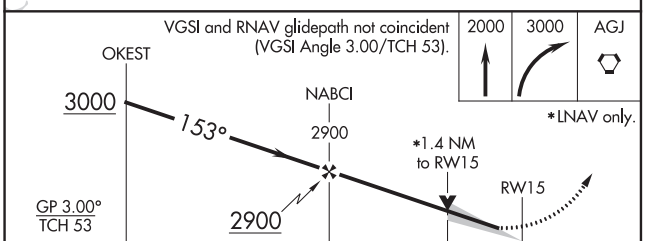
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F).
Circling NA west of Rwy 15-33. DME/DME RNP-0.3 NA.
For inop ALS, increase LPV Cat E visibility to RVR 4000, LNAV/VNAV all Cats visibility to 1⅜ SM and LNAV Cats C/D/E visibility to 1⅜ SM.
RVR 1800 authorized with the use of FD or AP or HUD to DA.

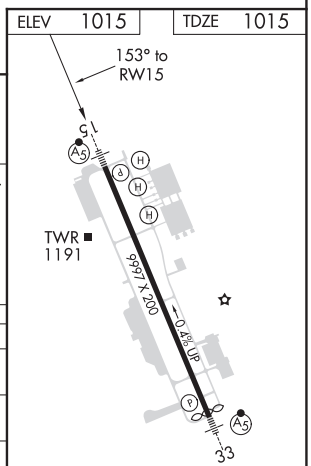
MALSR

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1







CATEGORY	A	B	C	D	E
LPV DA #	1215/24 200 (200-½)				
LNAV/VNAV DA	1531/55 516 (600-1)				
LNAV MDA	1520/24 505 (600-½)		1520/55 505 (600-1)		
C CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)

FORT HOOD/KILLEEN, TEXAS
Amdt 2 24MAY18

31°04′N-97°50′W

ROBERT GRAY AAF (GRK)
RNAV (GPS) RWY 15

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 33
ROBERT GRAY AAF (GRK)

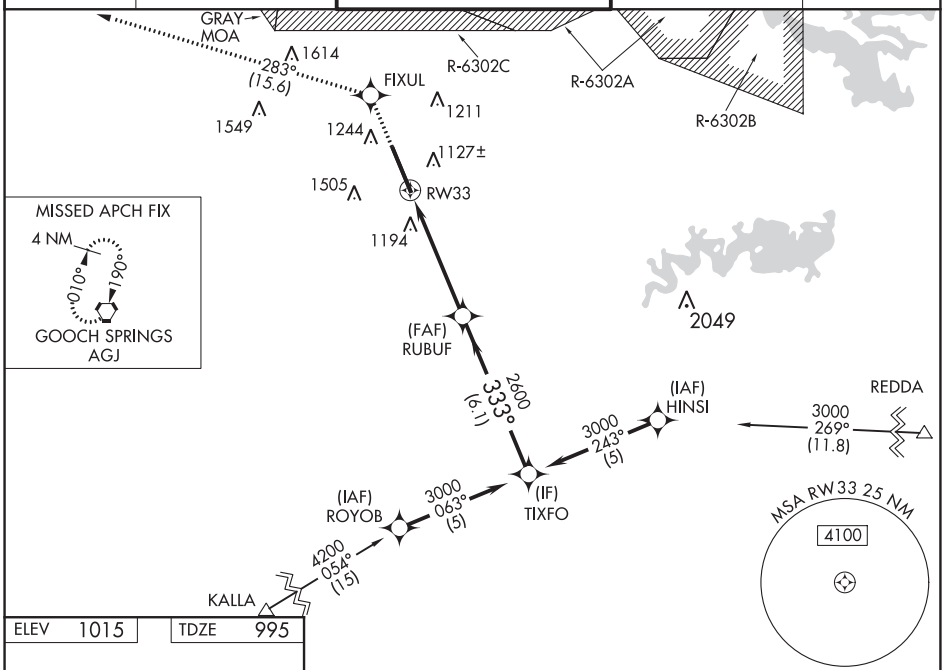
WAAS CH 82399 W33A	APP CRS 333°	Rwy ldg 9803 TDZE 995 Apt Elev 1015

ASR/PAR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). Circling NA west of Rwy 15-33. DME/DME RNP-0.3 NA. For inoperative ALS, increase LPV Cat E visibility to ¾ SM, LNAV/VNAV Cat E visibility to 2 SM, and LNAV Cat E visibility to 1½ SM.

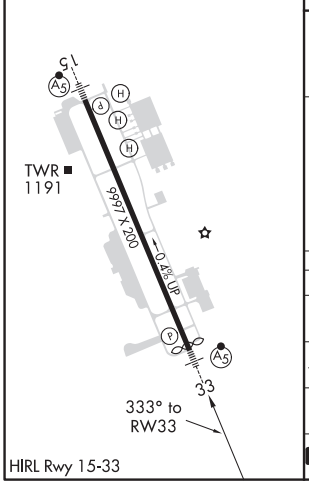
MALSR

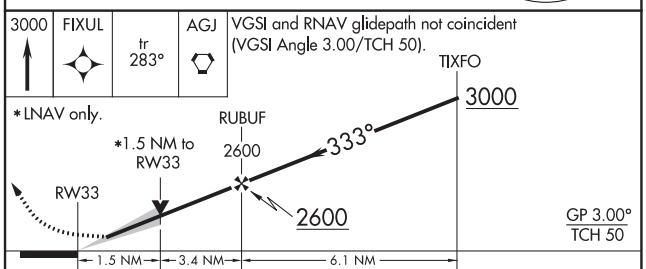
MISSED APPROACH: Climb to 3000 direct FIXUL and on track 283° to AGJ VORTAC and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1



ELEV 1015 | TDZE 995





CATEGORY	A	B	C	D	E
LPV DA	1195-½ 200 (200-½)				
LNAV/VNAV DA	1552-1½ 557 (600-1½)				
LNAV MDA	1460-½ 465 (500-½)	1460-1 465 (500-1)			
C CIRCLING	1540-1 525 (600-1)	1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)	

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FORT HOOD/KILLEEN, TEXAS

AL-906 (FAA)

20198

VOR/DME RWY 15

ROBERT GRAY AAF (GRK)

VOR/DME GRK	APP CRS	Rwy ldg	9997
111.8	152°	TDZE	1015
Chan 55		Apt Elev	1015

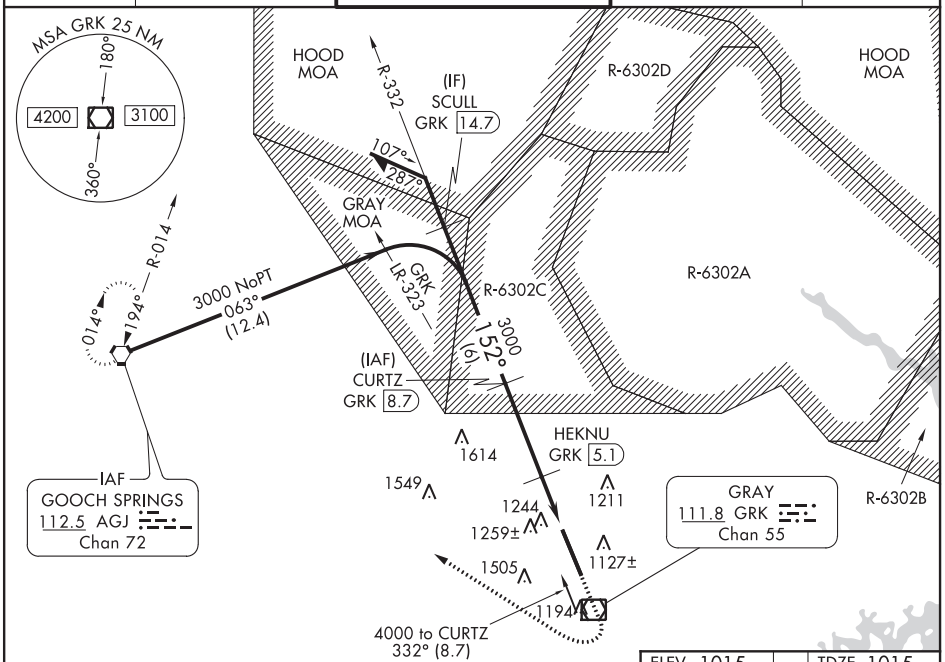
T NA ASR/PAR

Circling NA W of Rwy 15-33. For inoperative MALSR, increase S-15 Cat E visibility ½ mile.

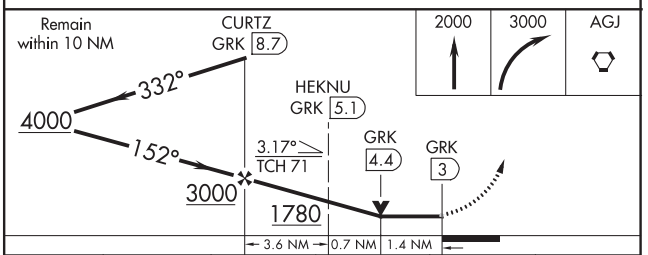
MALSR

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

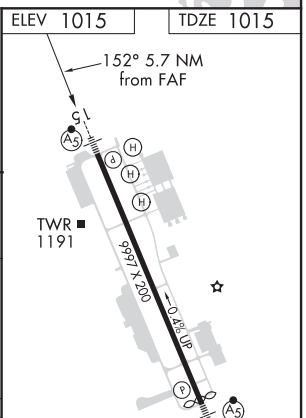
ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1



Cat E procedure turn not authorized.



CATEGORY	A	B	C	D	E
S-15	1520/24 505 (600-½)		1520/50 505 (600-1)		1520/60 505 (600-1¼)
C CIRCLING	1540-1 525 (600-1)		1560-1½ 545 (600-1½)	1620-2 605 (700-2)	1740-2½ 725 (800-2½)



HIRL Rwy 15-33

FORT HOOD/KILLEEN, TEXAS
Amdt 3B 21MAY20

31°04'N-97°50'W

ROBERT GRAY AAF (GRK)
VOR/DME RWY 15

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

VOR-A
ROBERT GRAY AAF (GRK)

VOR/DME GRK 111.8 Chan 55	APP CRS 333°	Rwy ldg N/A TDZE N/A Apt Elev 1015

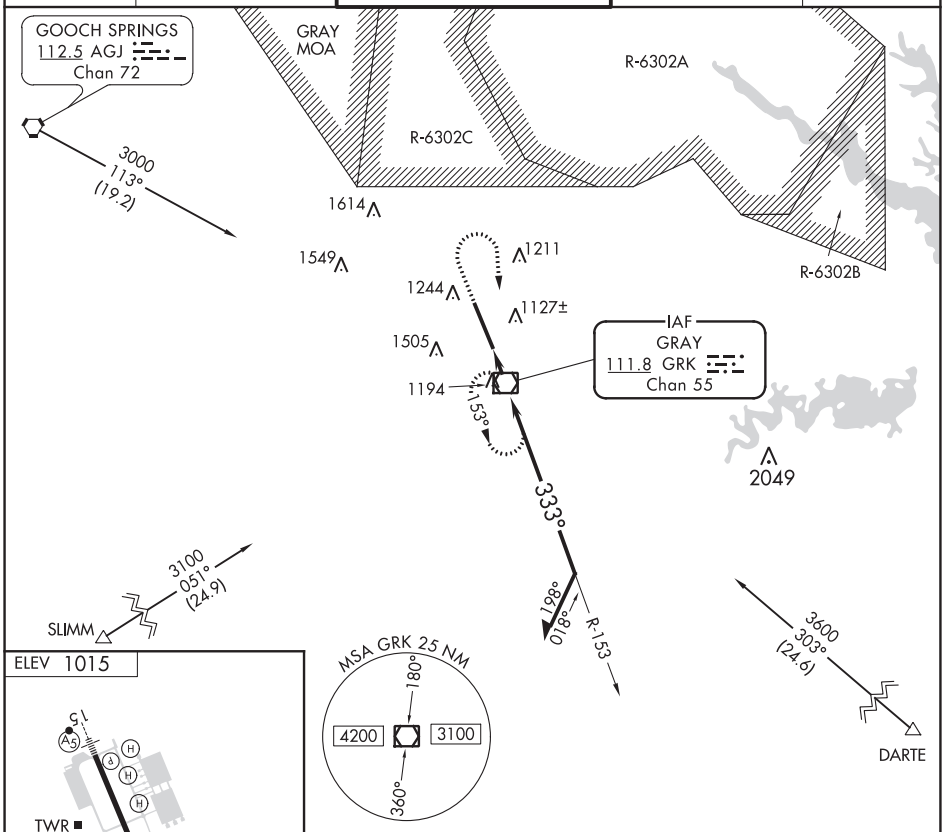
NA
ASR/PAR

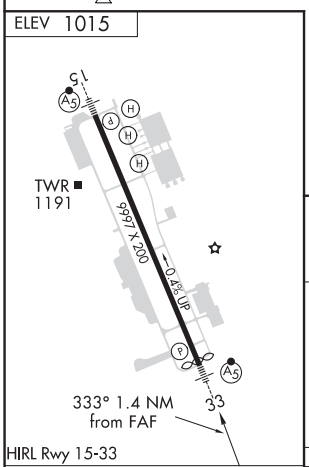
Circling NA W of Rwy 15-33.

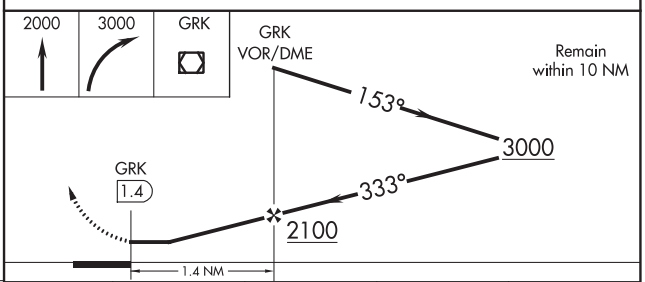
MALSR

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct GRK VOR/DME and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1







FAF to MAP 1.4 NM					
Knots	60	90	120	150	180
Min:Sec	1:24	0:56	0:42	0:34	0:28

CATEGORY	A	B	C	D
C CIRCLING	1540-1	525 (600-1)	1560-1½ 545 (600-1½)	1620-2 605 (700-2)

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FORT HOOD/KILLEEN, TEXAS | AL-906 (FAA) | 18312

COPTER VOR RWY 33

ROBERT GRAY AAF (GRK)

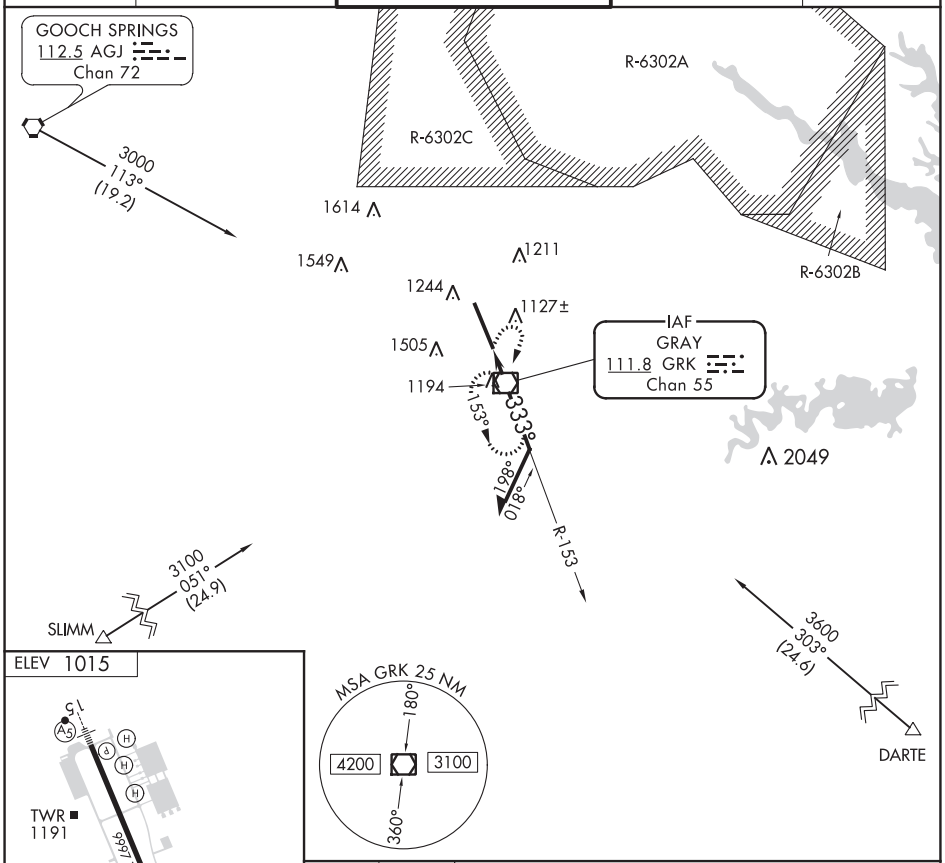
VOR/DME GRK	APP CRS	Rwy ldg	9803
111.8	333°	TDZE	N/A
Chan 55		Apt Elev	1015

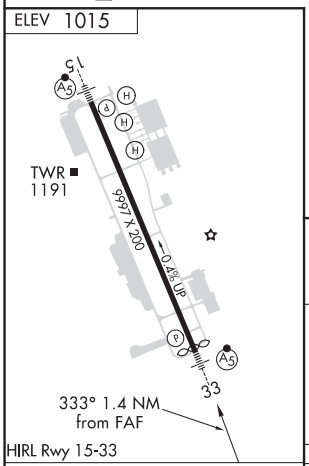
NA
ASR/PAR

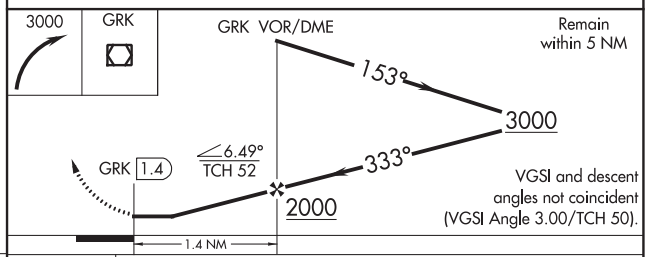
MALSR

MISSED APPROACH: Climbing right turn to 3000 direct GRK VOR/DME and hold.

ATIS	GRAY APP CON	GRAY TOWER	GND CON	CLNC DEL
124.9	120.075 323.15	120.75 285.5	121.8 279.5	126.2 251.1







FAF to MAP 1.4 NM					
Knots	45	60	75	90	105
Min:Sec	1:52	1:24	1:07	0:56	0:48

CATEGORY	COPTER
H-33	1460-¼ 465 (500-¼)

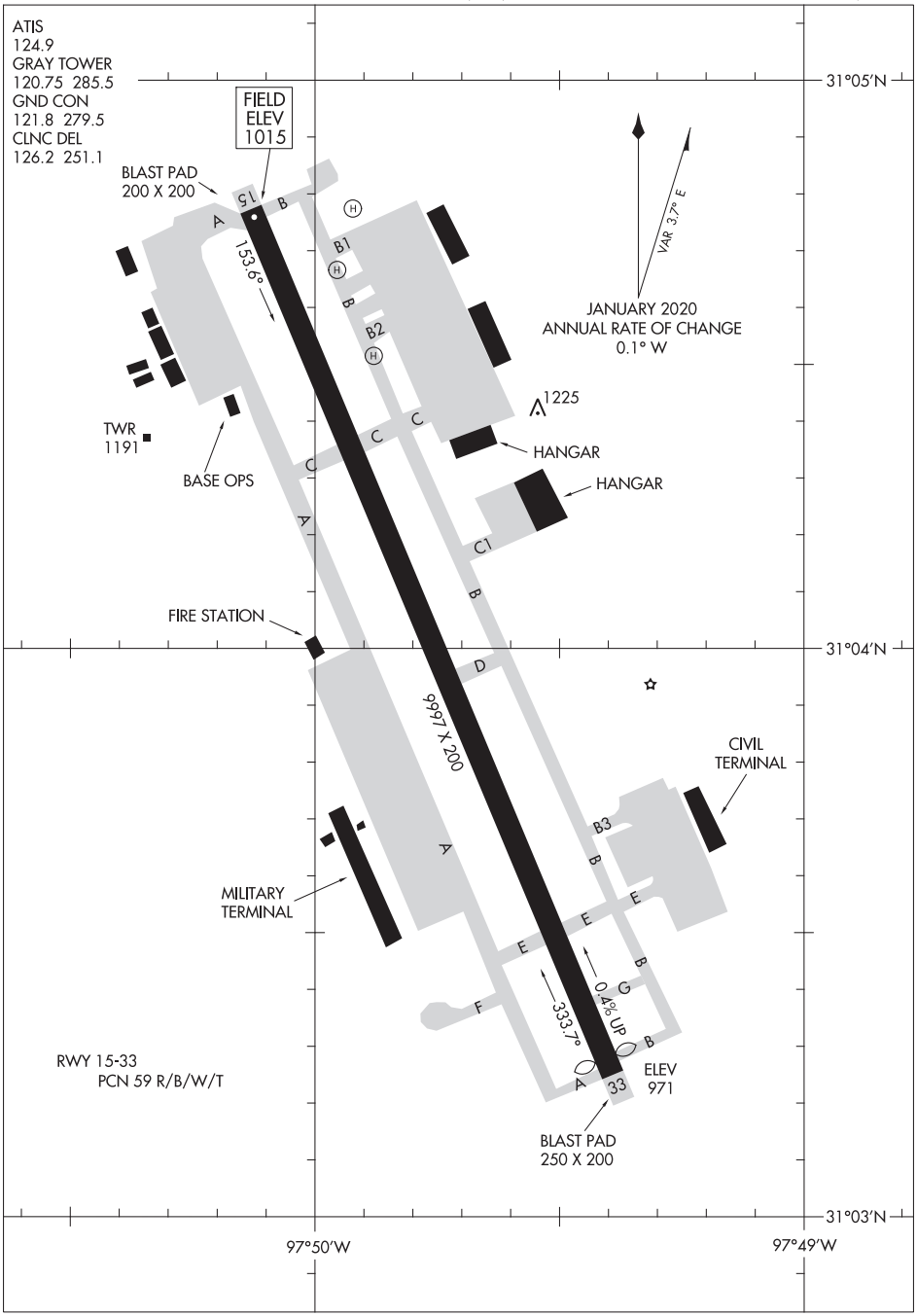
FORT HOOD/KILLEEN, TEXAS
Amdt 2B 17SEP15

31°04′N-97°50′W

ROBERT GRAY AAF (GRK)
COPTER VOR RWY 33

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

(CONRA2.CONRA) 20198

CONRA TWO DEPARTURE

AL-906 (FAA)

ROBERT GRAY AAF (GRK)
FORT HOOD/KILEEN, TEXAS

TOP ALTITUDE: 12000

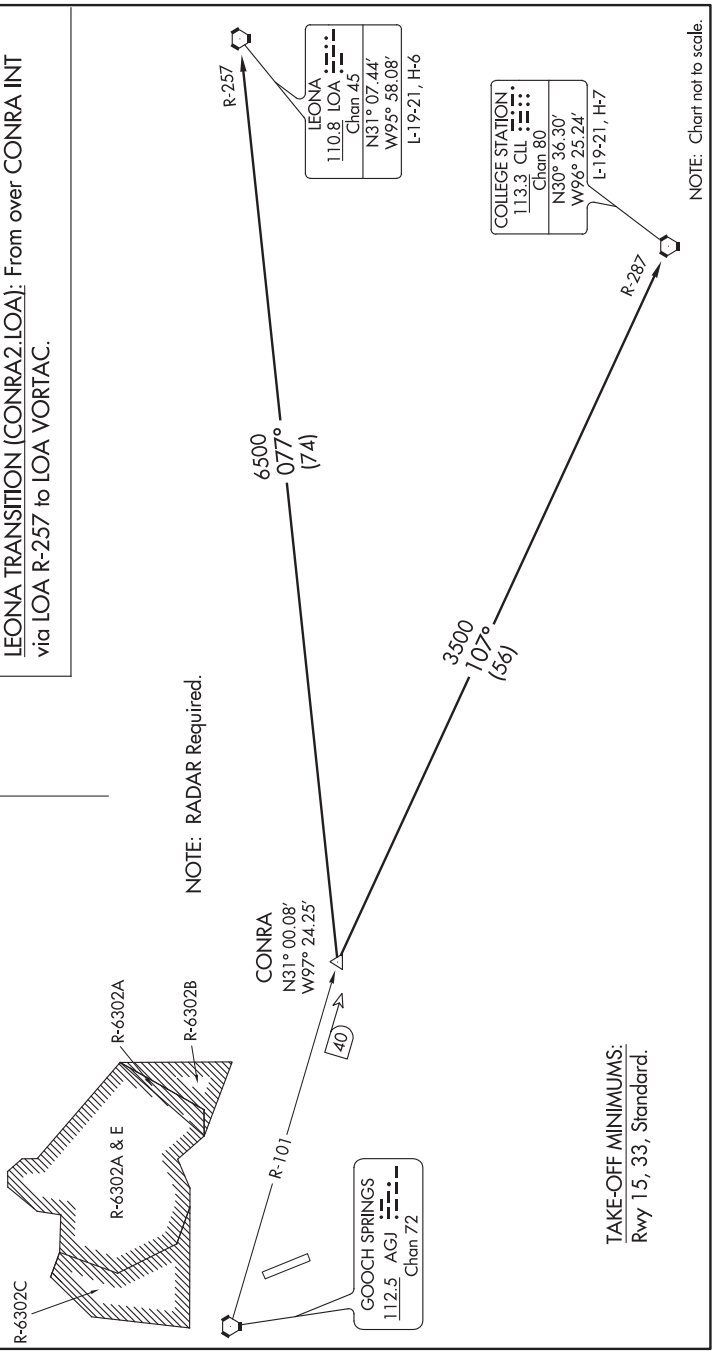
ATIS 124.9
CLNC DEL
126.2 251.1
GND CON
121.8 279.5
GRAY TOWER
120.75 285.5
GRAY DEP CON
120.075 323.15

DEPARTURE ROUTE DESCRIPTION

Climb on assigned heading for RADAR vectors to CONRA INT, maintain 3500. Thence . . . .

. . . . (transition). Expect filed altitude 10 minutes after departure.

COLLEGE STATION TRANSITION (CONRA2.CLL): From over CONRA INT via CLL R-287 to CLL VORTAC.
LEONA TRANSITION (CONRA2.LOA): From over CONRA INT via LOA R-257 to LOA VORTAC.



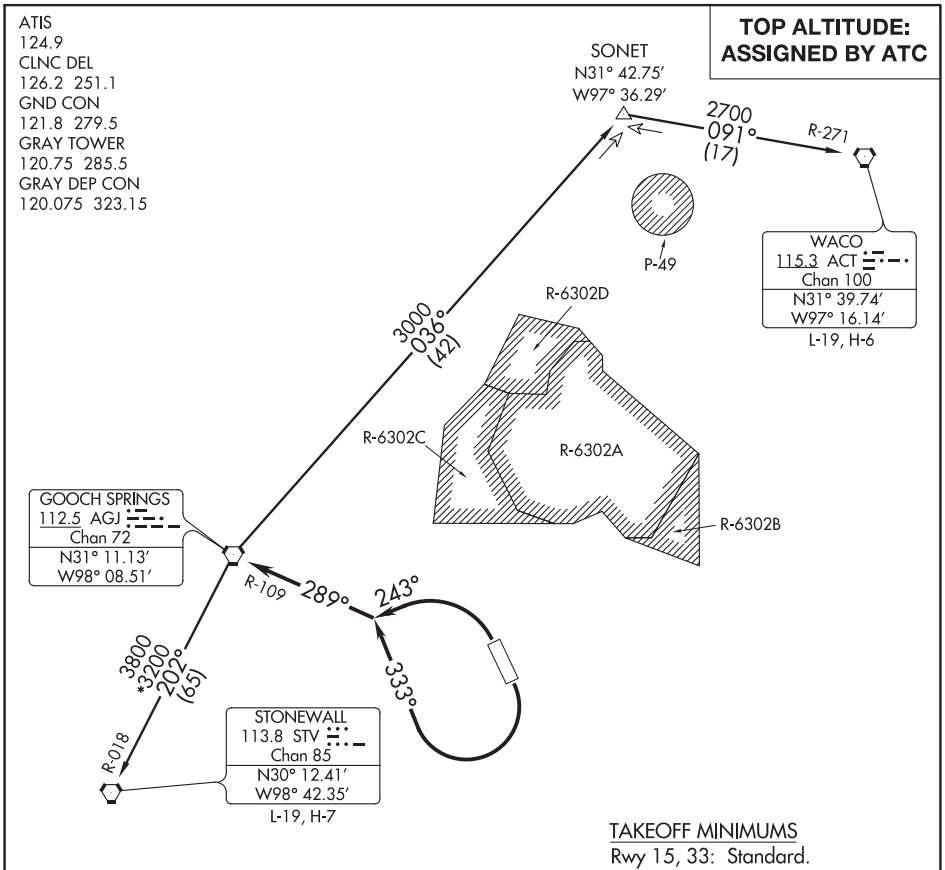
TAKE-OFF MINIMUMS:
Rwy 15, 33, Standard.

SC-3, 25 FEB 2021 to 22 APR 2021

CONRA TWO DEPARTURE
(CONRA2.CONRA) 21JUL16

FORT HOOD/KILEEN, TEXAS
ROBERT GRAY AAF (GRK)

LAMPS SEVEN DEPARTURE



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 15: Climbing right turn heading 333° (to assigned altitude) to intercept and proceed on AGJ R-109. Thence . . . .
TAKEOFF RWY 33: Climbing left turn heading 243° (to assigned altitude) to intercept and proceed on AGJ R-109. Thence . . . .

. . . . on (transition) or (assigned route).

STONEWALL TRANSITION (LAMPS7.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.
WACO TRANSITION (LAMPS7.ACT): From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

FORT STOCKTON, TEXAS

AL-5350 (FAA)

20338

RNAV (GPS) RWY 12
FORT STOCKTON-PECOS COUNTY (FST)

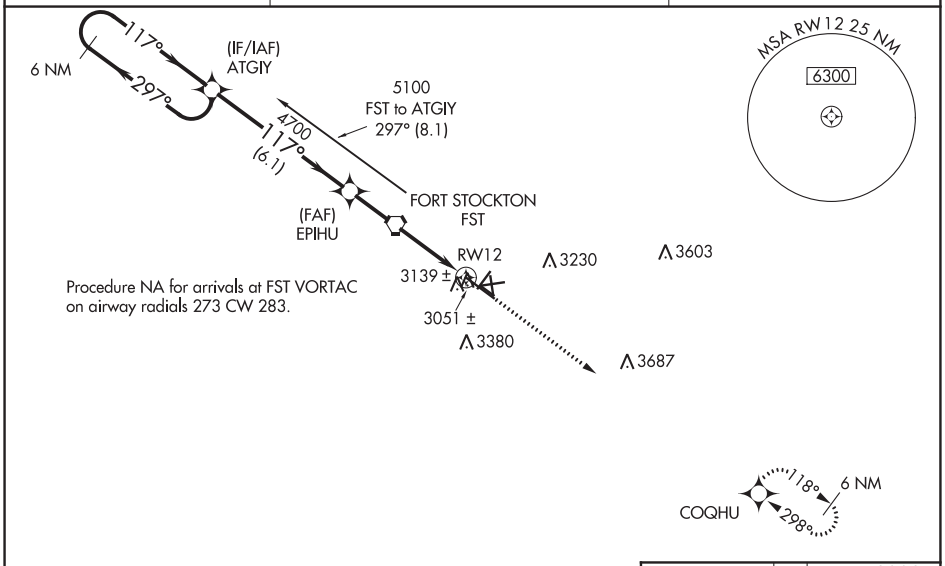
WAAS CH 78014 W12A	APP CRS 117°	Rwy ldg 7508 TDZE 3002 Apt Elev 3011

RNP APCH.

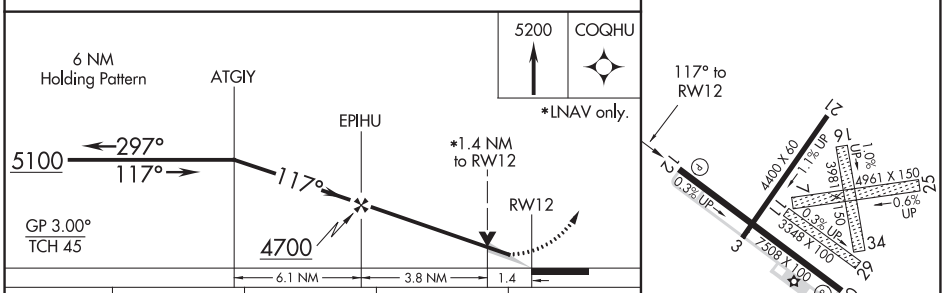
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). When local altimeter setting not received, use Pecos altimeter setting and increase all DA 152 feet and all MDA 160 feet, increase LPV visibility ½ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C/D visibility ½ mile, Circling Cat C visibility ¾ mile, Cat D visibility ½ mile. Baro-VNAV and VDP NA when using Pecos altimeter setting. Circling NA to Rwys 7-25, 11-29 and 16-34. Circling Rwy 3, 21, 30 NA at night.

MISSED APPROACH: Climb to 5200 direct COQHU and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.525	135.875 292.15	122.8 (CTAF) L



ELEV 3011 TDZE 3002



CATEGORY	A	B	C	D
LPV DA	3252-1 250 (300-1)			
LNAV/VNAV DA	3409-1½ 407 (400-1½)			
LNAV MDA	3480-1 478 (500-1)		3480-1¼ 478 (500-1¼)	3480-1½ 478 (500-1½)
CIRCLING	3540-1 529 (600-1)		3600-1½ 589 (600-1½)	3760-2½ 749 (800-2½)

MIRL Rwys 3-21 and 12-30 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	7508
298°	TDZE	3011
	Apt Elev	3011

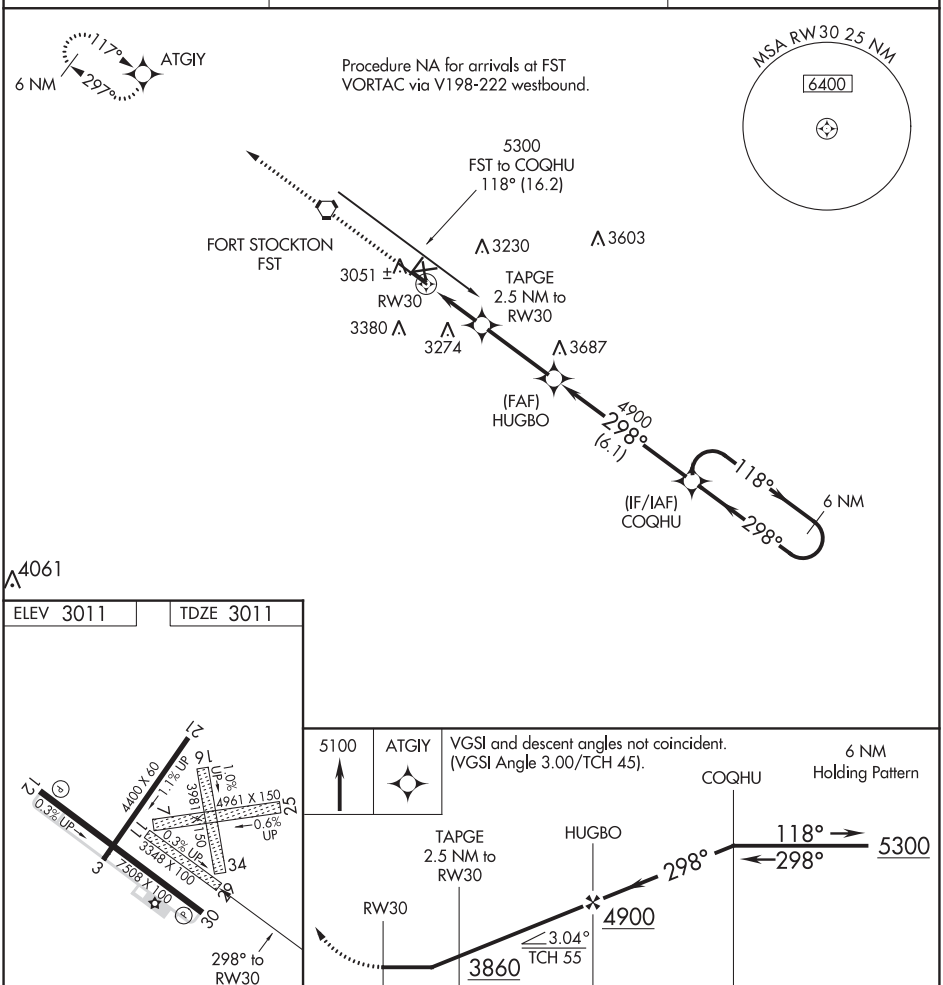
RNAV (GPS) RWY 30
FORT STOCKTON-PECOS COUNTY (FST)

RNP APCH.

Rwy 30 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Pecos altimeter setting and increase all MDA 160 feet, increase LNAV Cat C/D visibility ½ mile, Circling Cat C visibility ¾ mile, Cat D visibility ½ mile. Circling NA to Rwys 7-25, 11-29 and 16-34. Straight-in Rwy 30 NA at night, Circling Rwy 3, 21, 30 NA at night.

MISSED APPROACH: Climb to 5100 direct ATGIY and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.525	135.875 292.15	122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	3500-1 489 (500-1)		3500-1¼ 489 (500-1¼)	3500-1½ 489 (500-1½)
CIRCLING	3540-1 529 (600-1)		3600-1½ 589 (600-1½)	3760-2½ 749 (800-2½)

MIRL Rwys 3-21 and 12-30 L

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SC-3, 25 FEB 2021 to 22 APR 2021

FORT STOCKTON, TEXAS

AL-5350 (FAA)

20086

VOR RWY 12

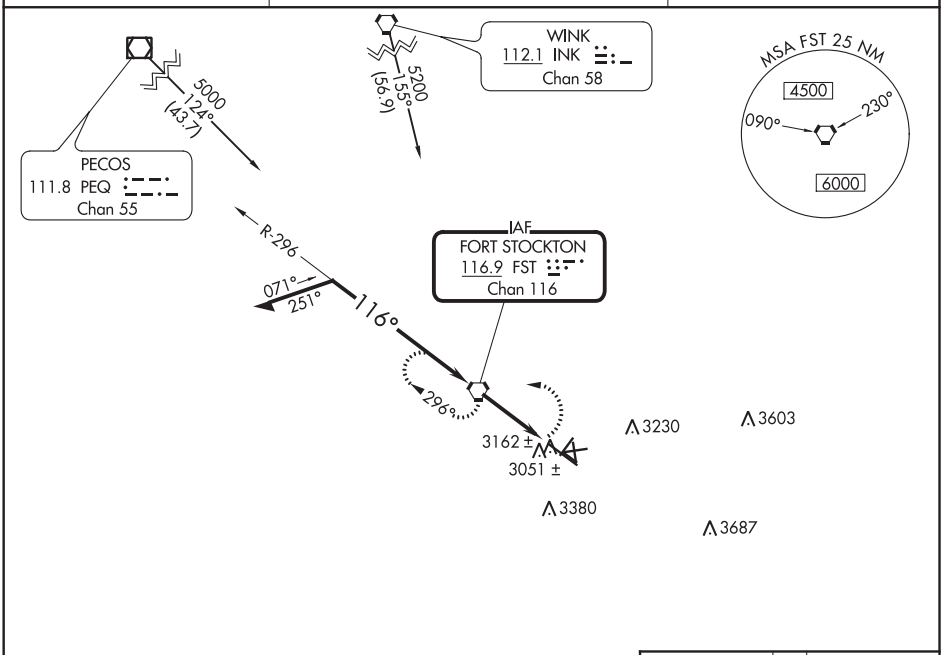
FORT STOCKTON-PECOS COUNTY (FST)

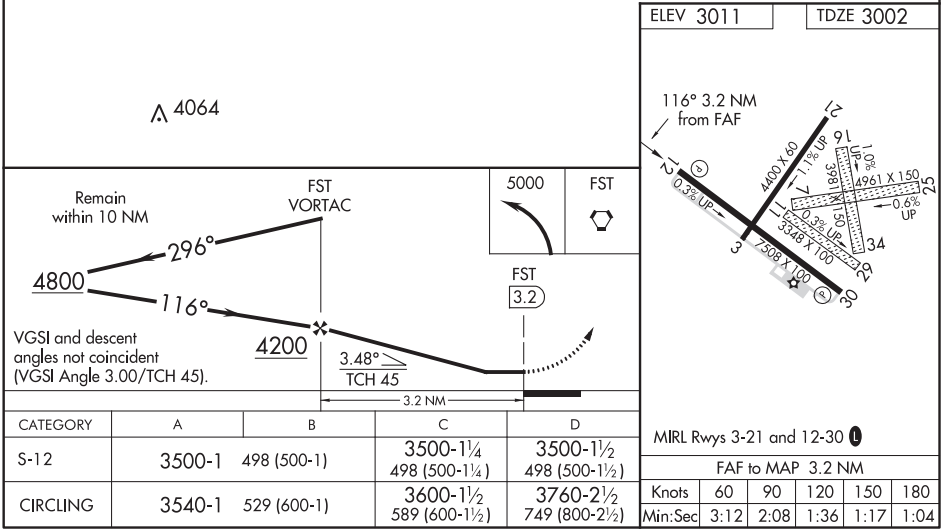
VORTAC FST	APP CRS	Rwy ldg	7508
116.9	116°	TDZE	3002
Chan 116		Apt Elev	3011

Circling NA to Rwys 7-25, 11-29 and 16-34.
Circling Rwy 3, 21, 30 NA at night.

MISSED APPROACH: Climbing left turn to 5000 direct FST VORTAC and hold.

ASOS	ALBUQUERQUE CENTER	UNICOM
118.525	135.875 292.15	122.8 (CTAF) L





CATEGORY	A	B	C	D
S-12	3500-1	498 (500-1)	3500-1¼ 498 (500-1¼)	3500-1½ 498 (500-1½)
CIRCLING	3540-1	529 (600-1)	3600-1½ 589 (600-1½)	3760-2½ 749 (800-2½)

FAF to MAP 3.2 NM

Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04

FORT STOCKTON, TEXAS
Amdt 8B 06DEC18

30°55′N-102°55′W

FORT STOCKTON-PECOS COUNTY (FST)

VOR RWY 12

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 14
GILLESPIE COUNTY (T82)

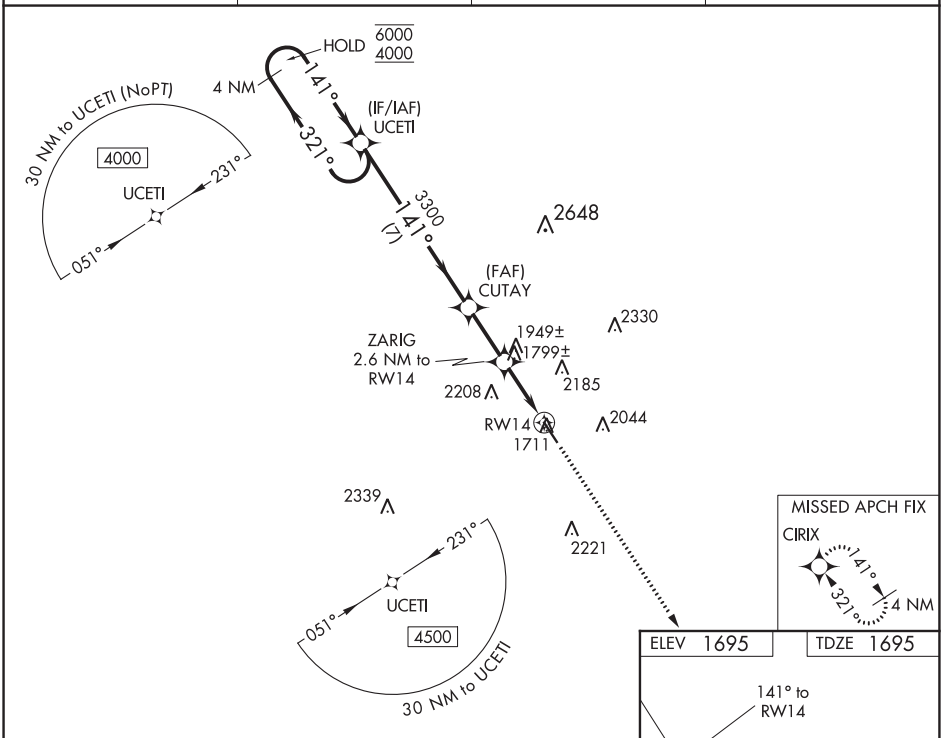
WAAS CH 78030 W14A	APP CRS 141°	Rwy ldg 5001 TDZE 1695 Apt Elev 1695

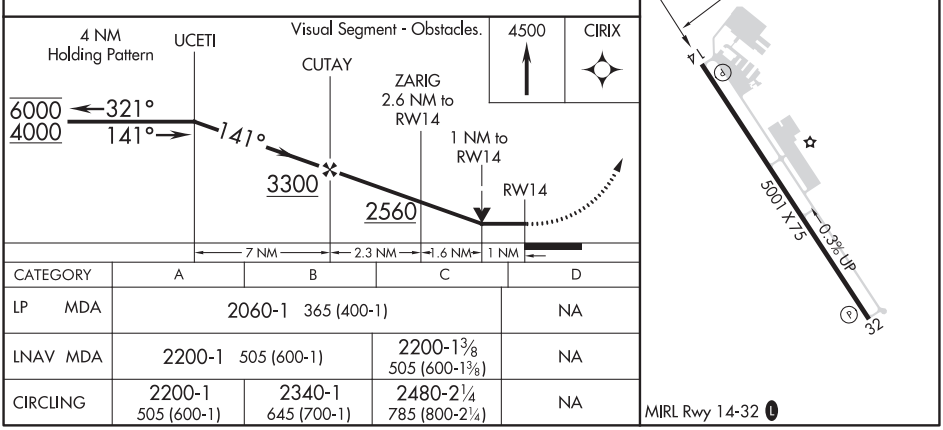
RNP APCH.

Rwy 14 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 4500 direct CIRIX and hold.

AWOS-3	HOUSTON CENTER	GCO	UNICOM
120.0	134.2 307.3	121.725	122.7 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	2060-1 365 (400-1)			NA
LNAV MDA	2200-1 505 (600-1)		2200-1⅜ 505 (600-1⅜)	NA
CIRCLING	2200-1 505 (600-1)	2340-1 645 (700-1)	2480-2¼ 785 (800-2¼)	NA

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

FREDERICKSBURG, TEXAS

AL-6428 (FAA)

20366

RNAV (GPS) RWY 32
GILLESPIE COUNTY (T82)

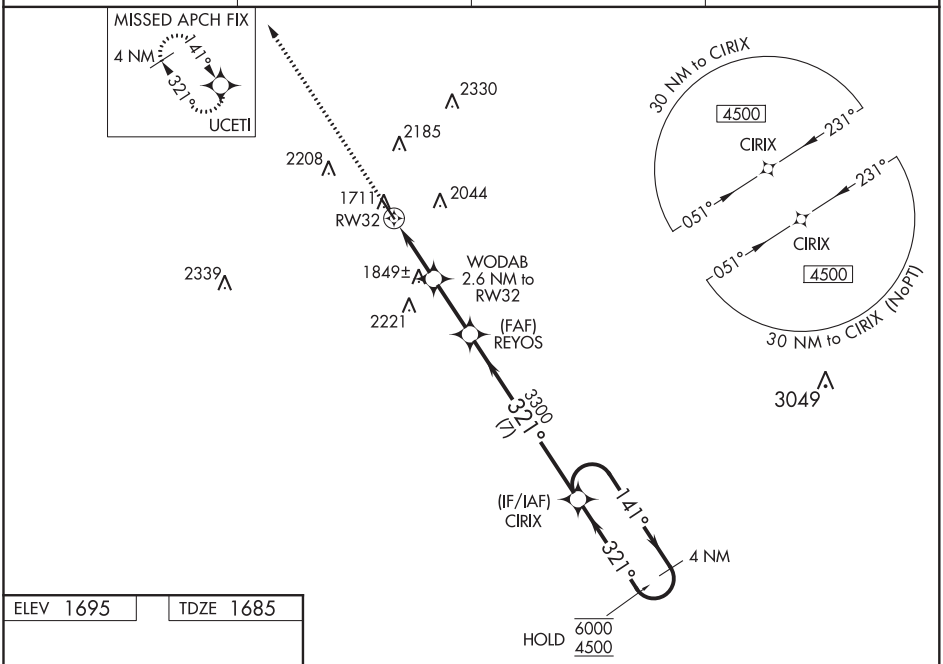
WAAS CH 81930 W32A	APP CRS 321°	Rwy ldg 5001 TDZE 1685 Apt Elev 1695

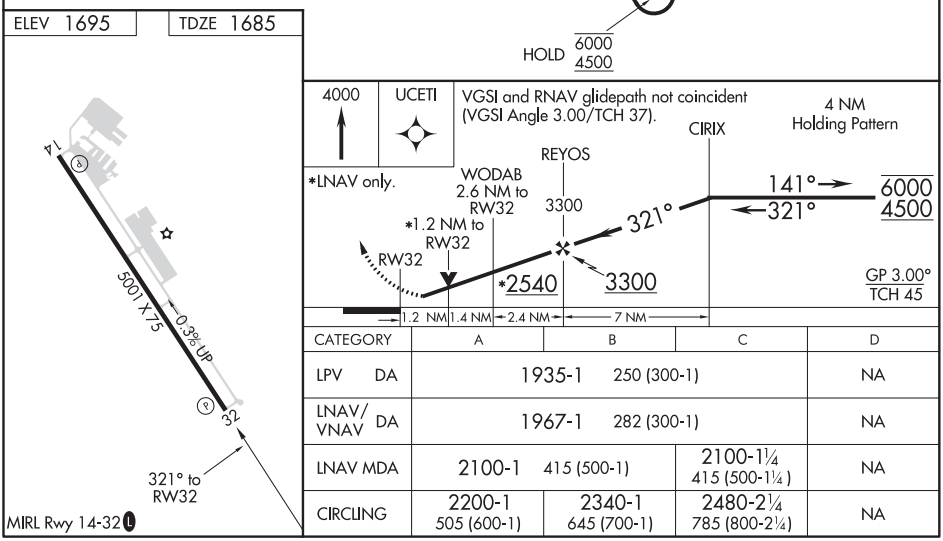
RNP APCH.

Rwy 32 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C or above 54°C.

MISSED APPROACH: Climb to 4000 direct UCETI and hold.

AWOS-3	HOUSTON CENTER	GCO	UNICOM
120.0	134.2 307.3	121.725	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1935-1 250 (300-1)			NA
LNAV/VNAV DA	1967-1 282 (300-1)			NA
LNAV MDA	2100-1 415 (500-1)		2100-1¼ 415 (500-1¼)	NA
CIRCLING	2200-1 505 (600-1)	2340-1 645 (700-1)	2480-2¼ 785 (800-2¼)	NA

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SC-3, 25 FEB 2021 to 22 APR 2021

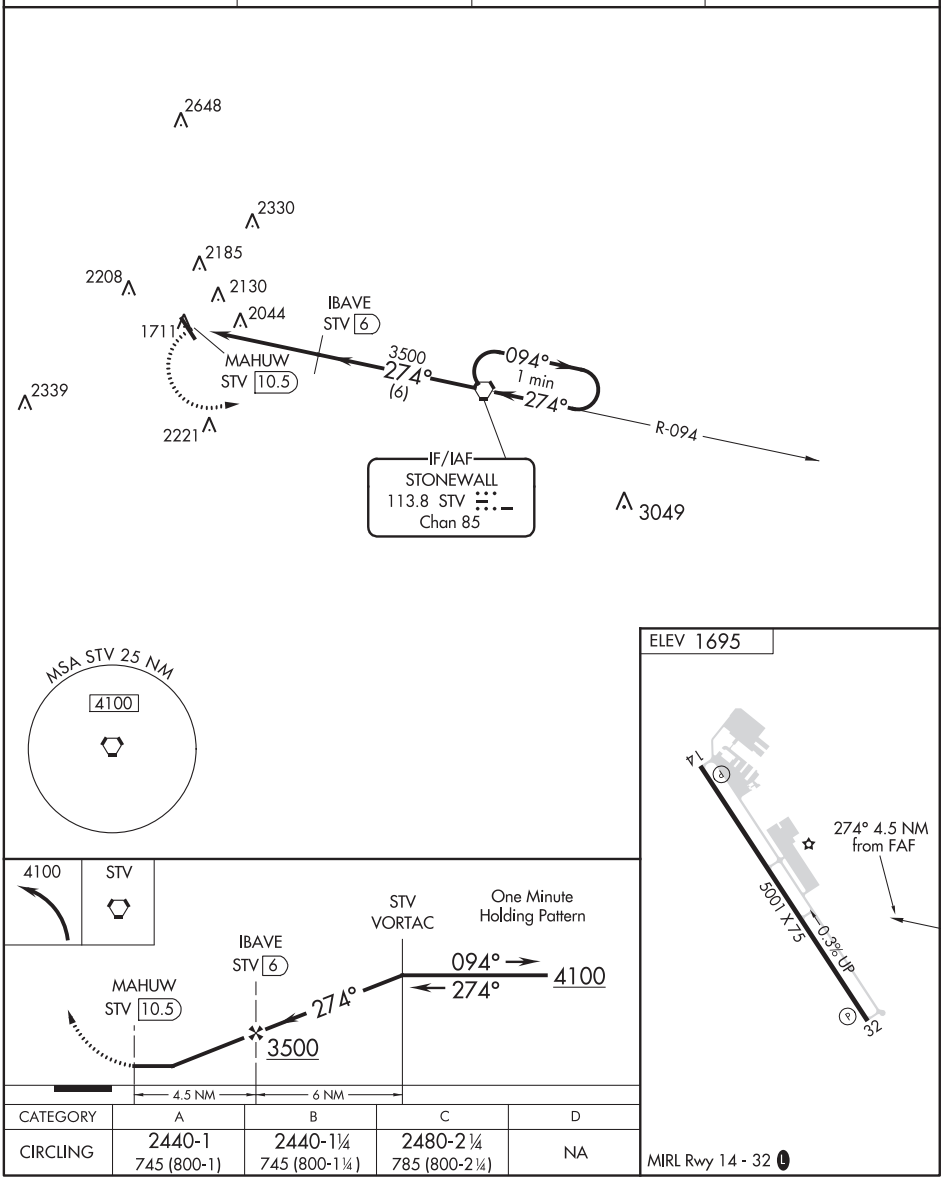
VOR/DME-A
GILLESPIE COUNTY (T82)

VORTAC STV	APP CRS	Rwy ldg	N/A
113.8 Chan 85	274°	TDZE	N/A
		Apt Elev	1695

When local altimeter setting not received, use Kerrville altimeter setting and increase MDA 60 feet and Cat C visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4100 direct STV VORTAC and hold.

AWOS-3	HOUSTON CENTER	GCO	UNICOM
120.0	134.2 307.3	121.725	122.7 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	2440-1 745 (800-1)	2440-1¼ 745 (800-1¼)	2480-2¼ 785 (800-2¼)	NA

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

GEORGE WEST, TEXAS

AL-6928 (FAA)

19283

RNAV (GPS) RWY 13
LIVE OAK COUNTY (8T6)

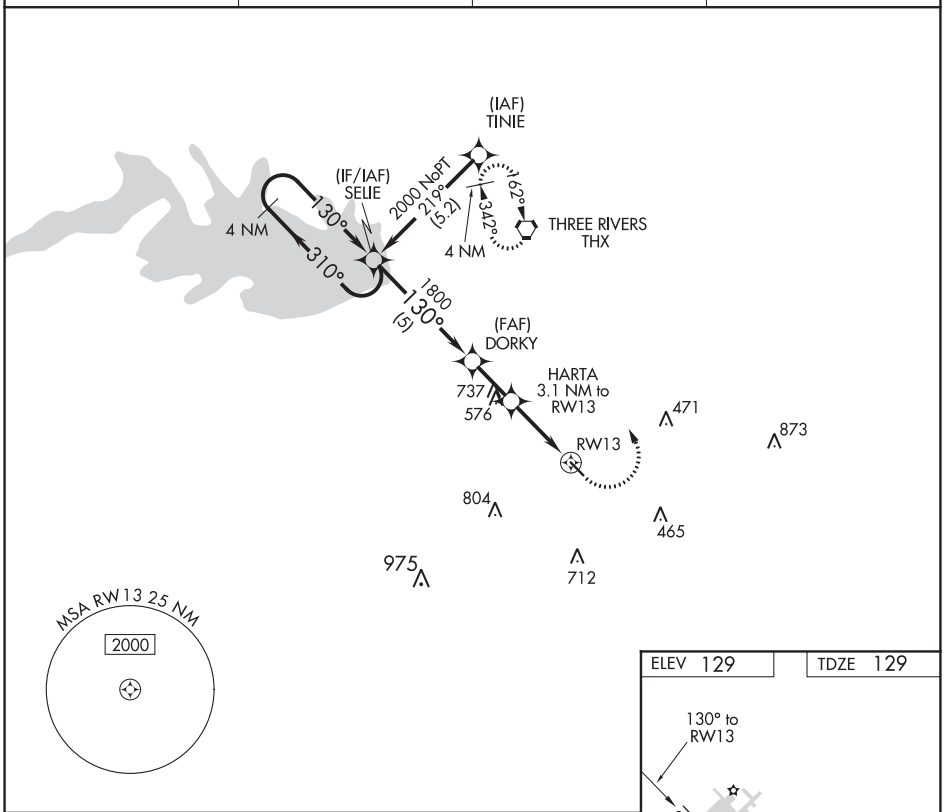
APP CRS	Rwy ldg	3799
130°	TDZE	129
	Apt Elev	129

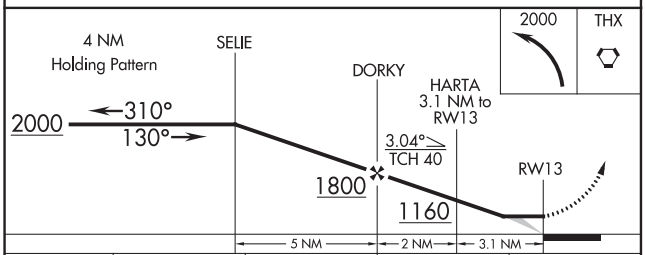
T
A NA

Use Alice Intl altimeter setting. DME/DME RNP-0.3 NA.
Procedure NA at night. Visibility reduction by helicopters NA.

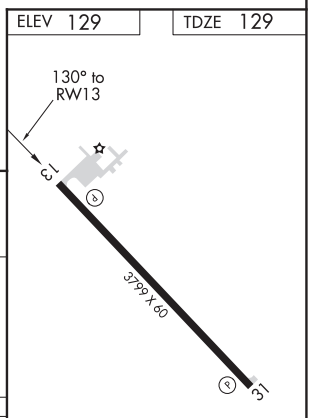
MISSED APPROACH: Climbing left turn to 2000 direct THX VORTAC and hold.

ALI ASOS	HOUSTON CENTER	CTAF	122.7 L
119.225	134.6 322.5	122.9	





CATEGORY	A	B	C	D
LNAV MDA	700-1 571 (600-1)		700-1½ 571 (600-1½)	NA
CIRCLING	760-1 631 (700-1)		760-1¾ 631 (700-1¾)	NA



GEORGE WEST, TEXAS
Orig-A 23AUG12

28°22'N-98°07'W

LIVE OAK COUNTY (8T6)
RNAV (GPS) RWY 13

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

VORTAC THX	APP CRS	Rwy ldg	N/A
111.4	160°	TDZE	N/A
Chan 51		Apt Elev	129

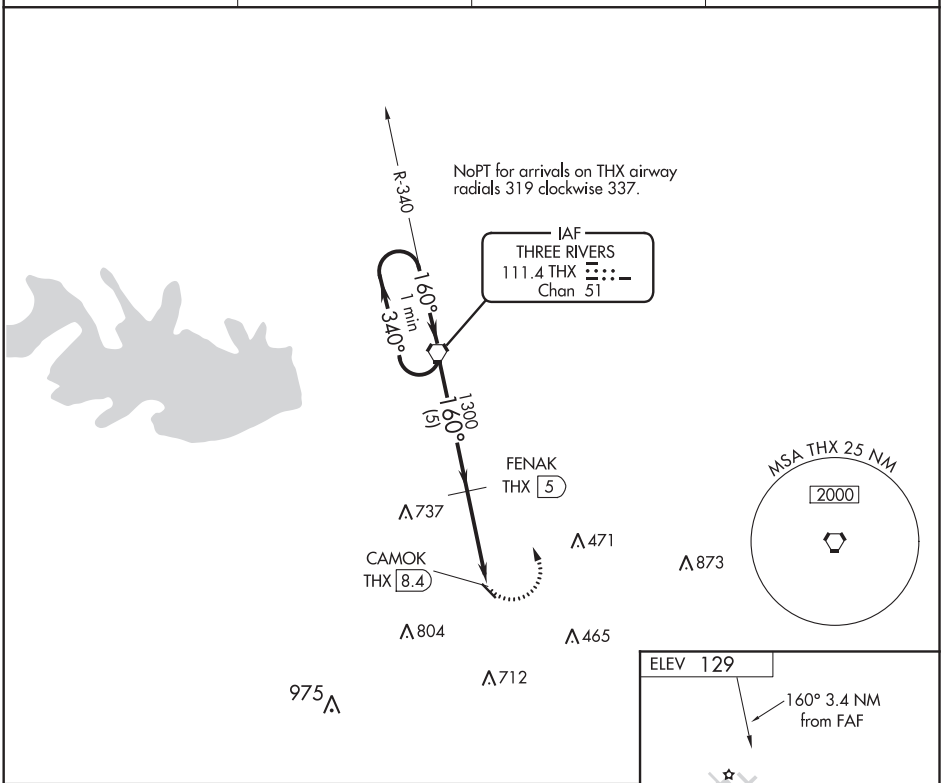
VOR/DME-A
LIVE OAK COUNTY (8T6)

T A NA

Use Alice Intl altimeter setting. Circling to Rwy 31 NA at night. Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 2000 direct THX VORTAC and hold.

ALI ASOS	HOUSTON CENTER	CTAF	122.7 L
119.225	134.6 322.5	122.9	



CATEGORY	A	B	C	D
CIRCLING	760-1 631 (700-1)		760-1¾ 631 (700-1¾)	NA

MIRL Rwy 13-31 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

GEORGETOWN, TEXAS

AL-5724 (FAA)

21056

RNAV (GPS) RWY 11
GEORGETOWN MUNI (GTU)

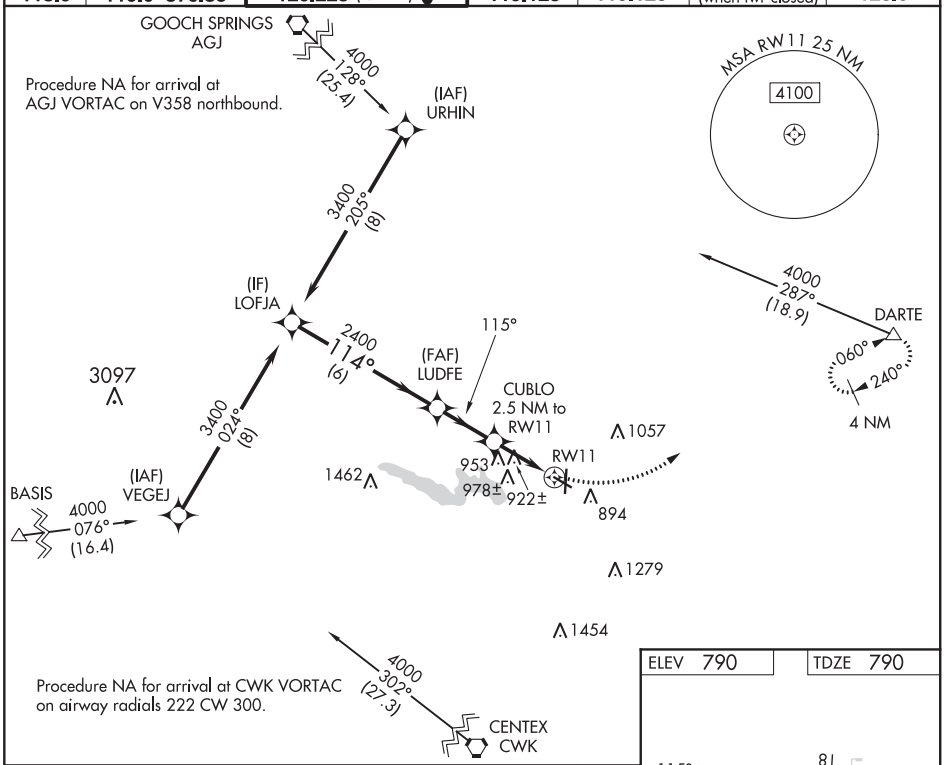
WAAS CH 70441 W11A	APP CRS 115°	Rwy ldg 4099 TDZE 790 Apt Elev 790

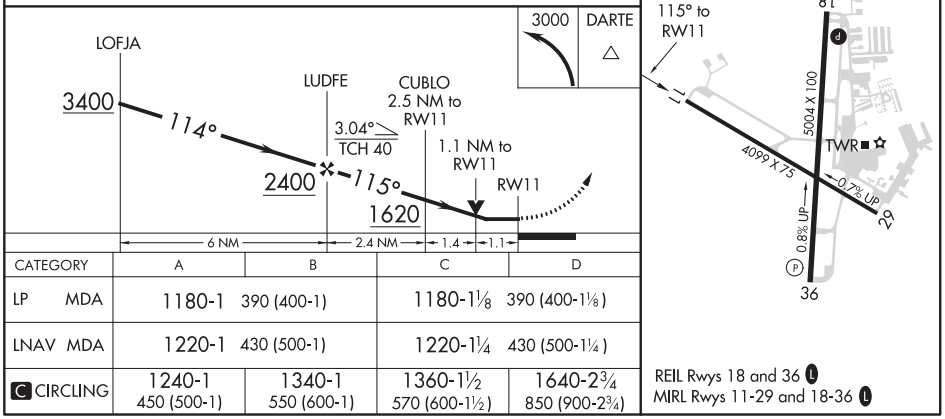
RNP APCH.

Rwy 11 helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Skylark Field altimeter setting and increase all MDA 80 feet. Increase LP and Circling Cat C/D visibility ¼ SM and LNAV Cat C/D visibility ⅛ SM. VDP NA when using Skylark Field altimeter setting.

MISSED APPROACH: Climbing left turn to 3000 direct DARTE and hold.

ATIS	AUSTIN APP CON	GEORGETOWN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.6	119.0 370.85	120.225 (CTAF) L	119.125	119.125	121.1	123.0





CATEGORY	A	B	C	D
LP MDA	1180-1 390 (400-1)		1180-1⅛ 390 (400-1⅛)	
LNAV MDA	1220-1 430 (500-1)		1220-1¼ 430 (500-1¼)	
C CIRCLING	1240-1 450 (500-1)	1340-1 550 (600-1)	1360-1½ 570 (600-1½)	1640-2¾ 850 (900-2¾)

REIL Rwys 18 and 36 L
MIRL Rwys 11-29 and 18-36 L

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 62938 W18A	APP CRS 178°	Rwy ldg 5004 TDZE 786 Apt Elev 790

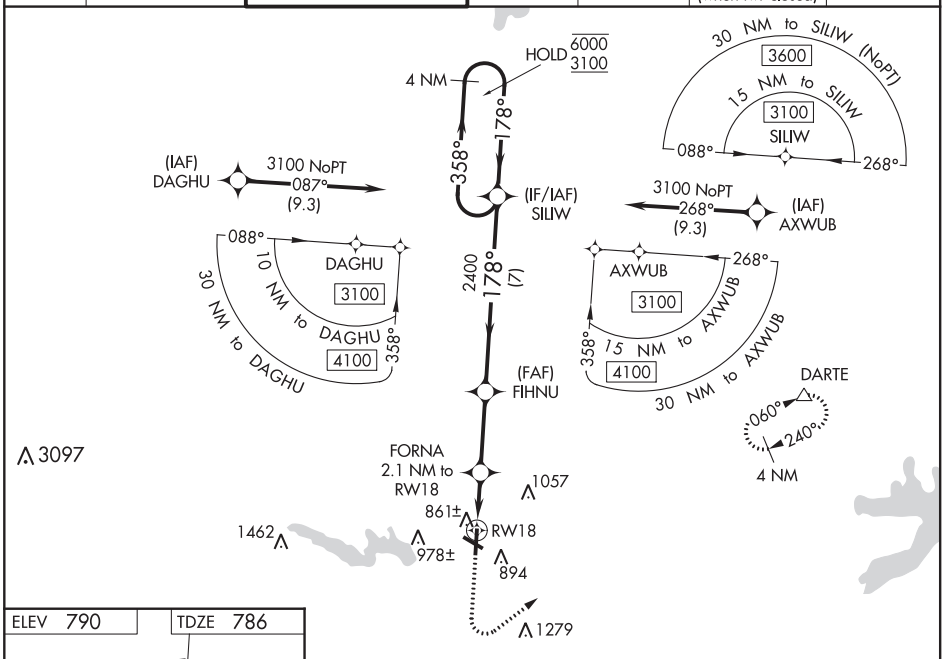
RNAV (GPS) RWY 18
GEORGETOWN MUNI (GTU)

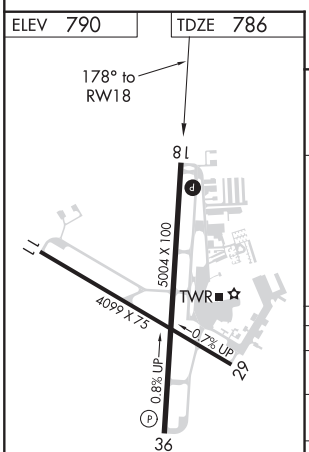
RNP APCH.

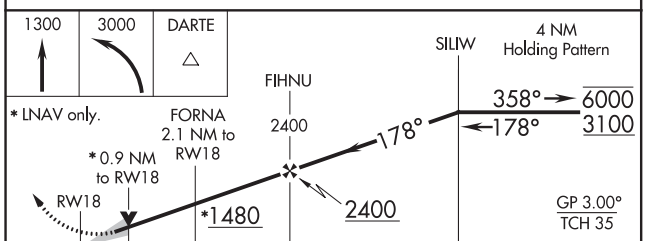
Circling Rwy 29 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C .

MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct DARTE and hold.

ATIS	AUSTIN APP CON	GEORGETOWN TOWER *	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.6	119.0 370.85	120.225 (CTAF) L	119.125	119.125	121.1	123.0







CATEGORY	A	B	C	D
LPV DA	1036-1 250 (300-1)			
LNAV/VNAV DA	1036-1 250 (300-1)			
LNAV MDA	1120-1 334 (400-1)			
C CIRCLING	1240-1 450 (500-1)	1340-1 550 (600-1)	1360-1½ 570 (600-1½)	1640-2¾ 850 (900-2¾)

REIL Rwys 18-36 L
MIRL Rwys 11-29 and 18-36 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

GEORGETOWN, TEXAS

AL-5724 (FAA)

20198

RNAV (GPS) RWY 29
GEORGETOWN MUNI (GTU)

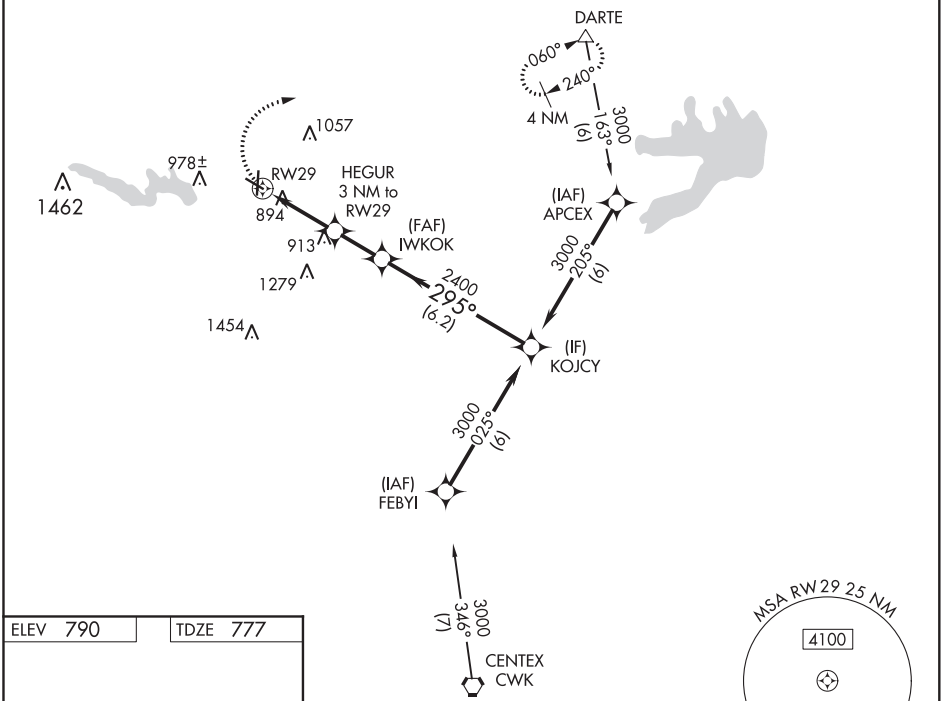
APP CRS	Rwy ldg	4099
295°	TDZE	777
	Apt Elev	790

RNP APCH.

Rwy 29 helicopter visibility reduction below ¾ SM NA. VDP NA when using Skylark Field altimeter setting. When local altimeter setting not received, use Skylark Field altimeter setting and increase all MDA 80 feet increase LNAV and Circling Cat C/D visibility ¼ SM.

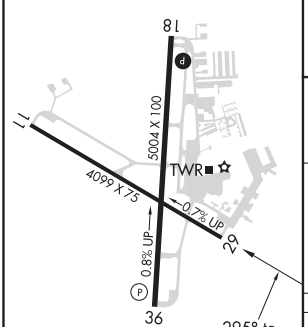
MISSED APPROACH: Climbing right turn to 3000 direct DARTE and hold.

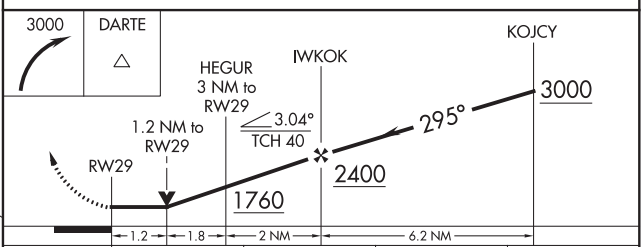
ATIS	AUSTIN APP CON	GEORGETOWN TOWER ★	GND CON	CLNC DEL	CLNC DEL (when twr closed)	UNICOM
118.6	119.0 370.85	120.225 (CTAF) L	119.125	119.125	121.1	123.0



Procedure NA for arrival on CWK VORTAC airway radials 271 CW 070.

ELEV 790 | TDZE 777





CATEGORY	A	B	C	D
LNAV MDA	1220-1 443 (500-1)		1220-1⅜ 443 (500-1⅜)	
C CIRCLING	1240-1 450 (500-1)	1340-1 550 (600-1)	1360-1½ 570 (600-1½)	1640-2¾ 850 (900-2¾)

REIL Rwys 18 and 36 L
MIRL Rwys 11-29 and 18-36 L

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 72738 W36A	APP CRS 358°	Rwy ldg 5004 TDZE 765 Apt Elev 790

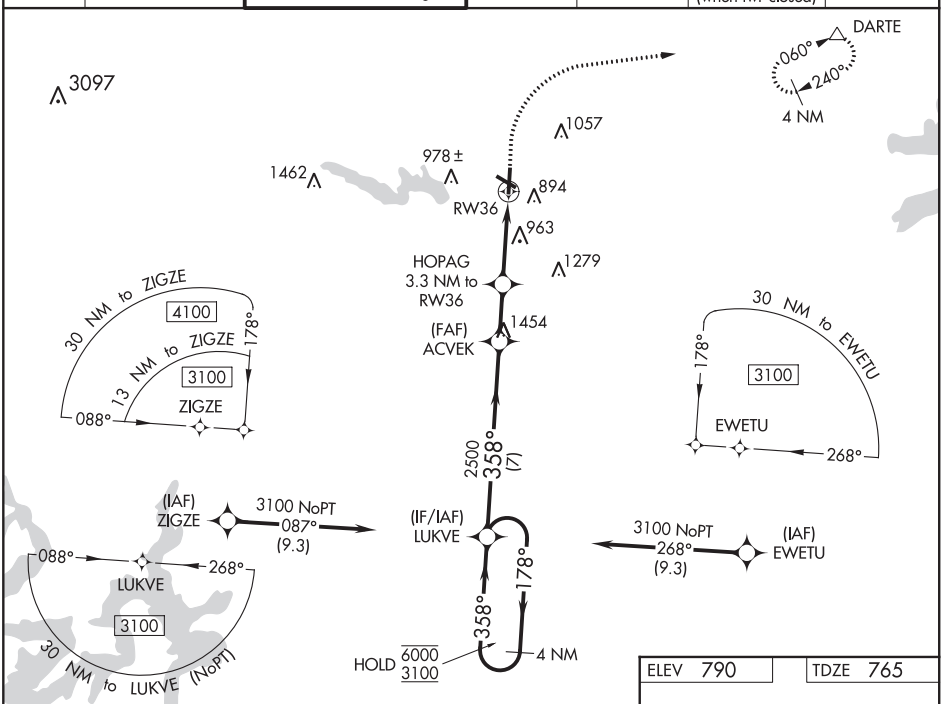
RNAV (GPS) RWY 36
GEORGETOWN MUNI (GTU)

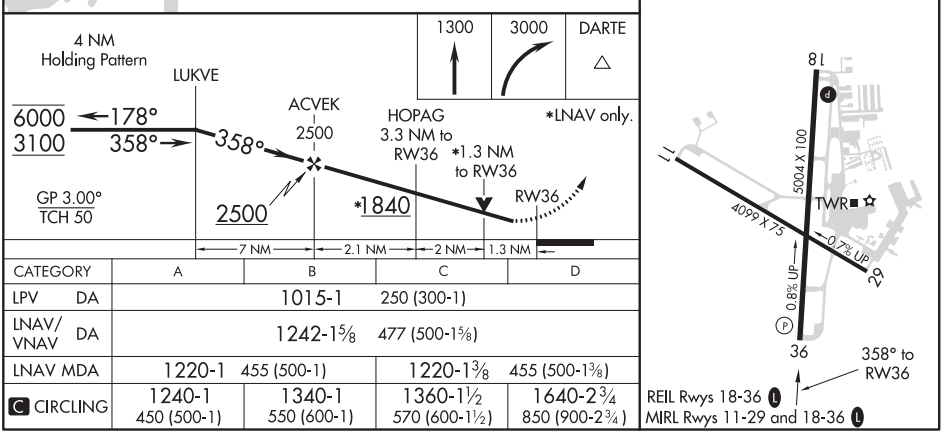
RNP APCH.

Circling Rwy 29 NA at night.
Rwy 36 helicopter visibility reduction below ¾ SM NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C.

MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 direct DARTE and hold.

ATIS	AUSTIN APP CON	GEORGETOWN TOWER *	GND CON	CLNC DEL	CLNC DEL	UNICOM
118.6	119.0 370.85	120.225 (CTAF) L	119.125	119.125	121.1 (when twr closed)	123.0





CATEGORY	A	B	C	D
LPV DA	1015-1 250 (300-1)			
LNAV/VNAV DA	1242-1⅝ 477 (500-1⅝)			
LNAV MDA	1220-1 455 (500-1)		1220-1⅜ 455 (500-1⅜)	
C CIRCLING	1240-1 450 (500-1)	1340-1 550 (600-1)	1360-1½ 570 (600-1½)	1640-2¾ 850 (900-2¾)

SC-3, 25 FEB 2021 to 22 APR 2021

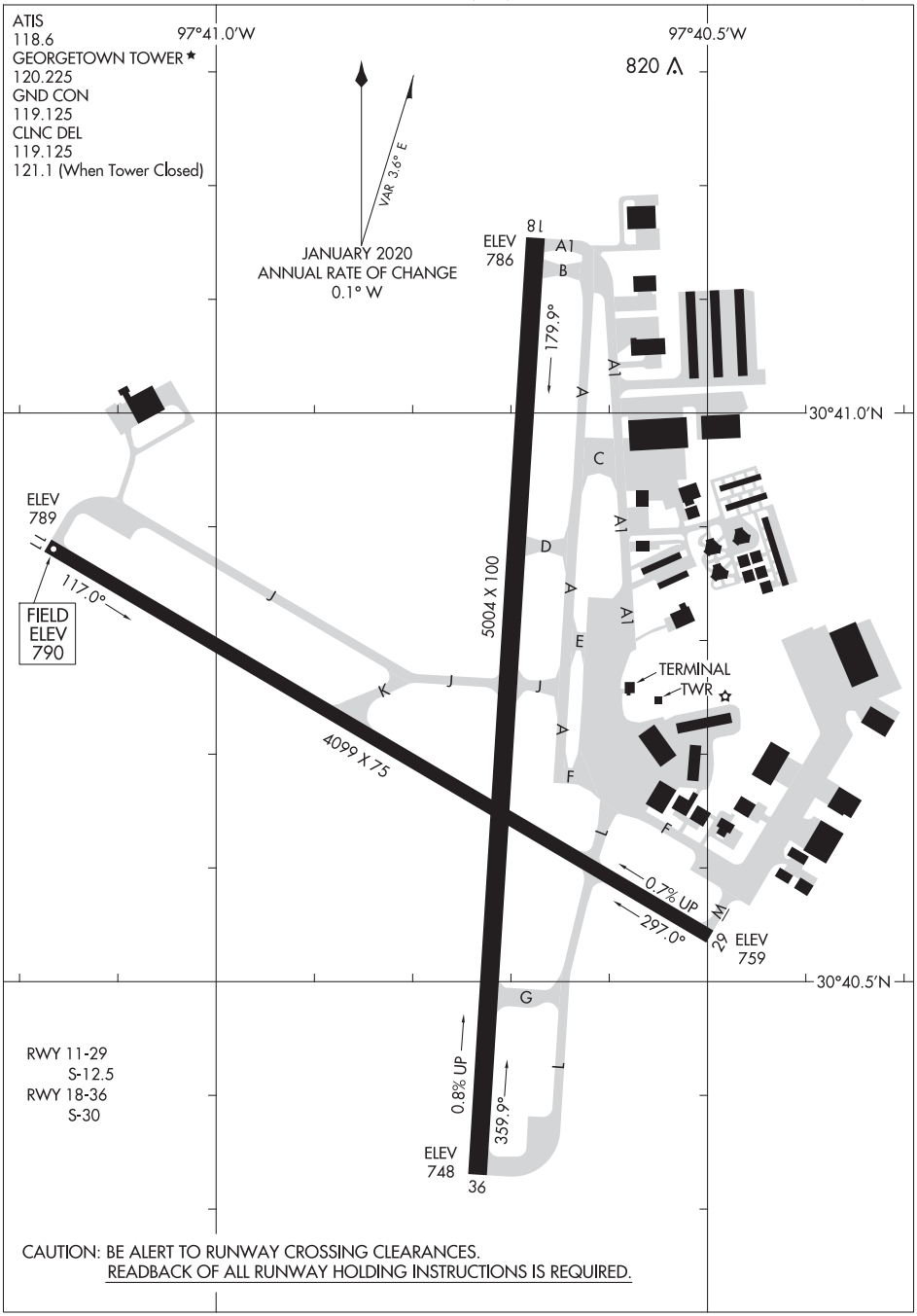
20086

AIRPORT DIAGRAM

AL-5724 (FAA)

GEORGETOWN MUNI (GTU)

GEORGETOWN, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

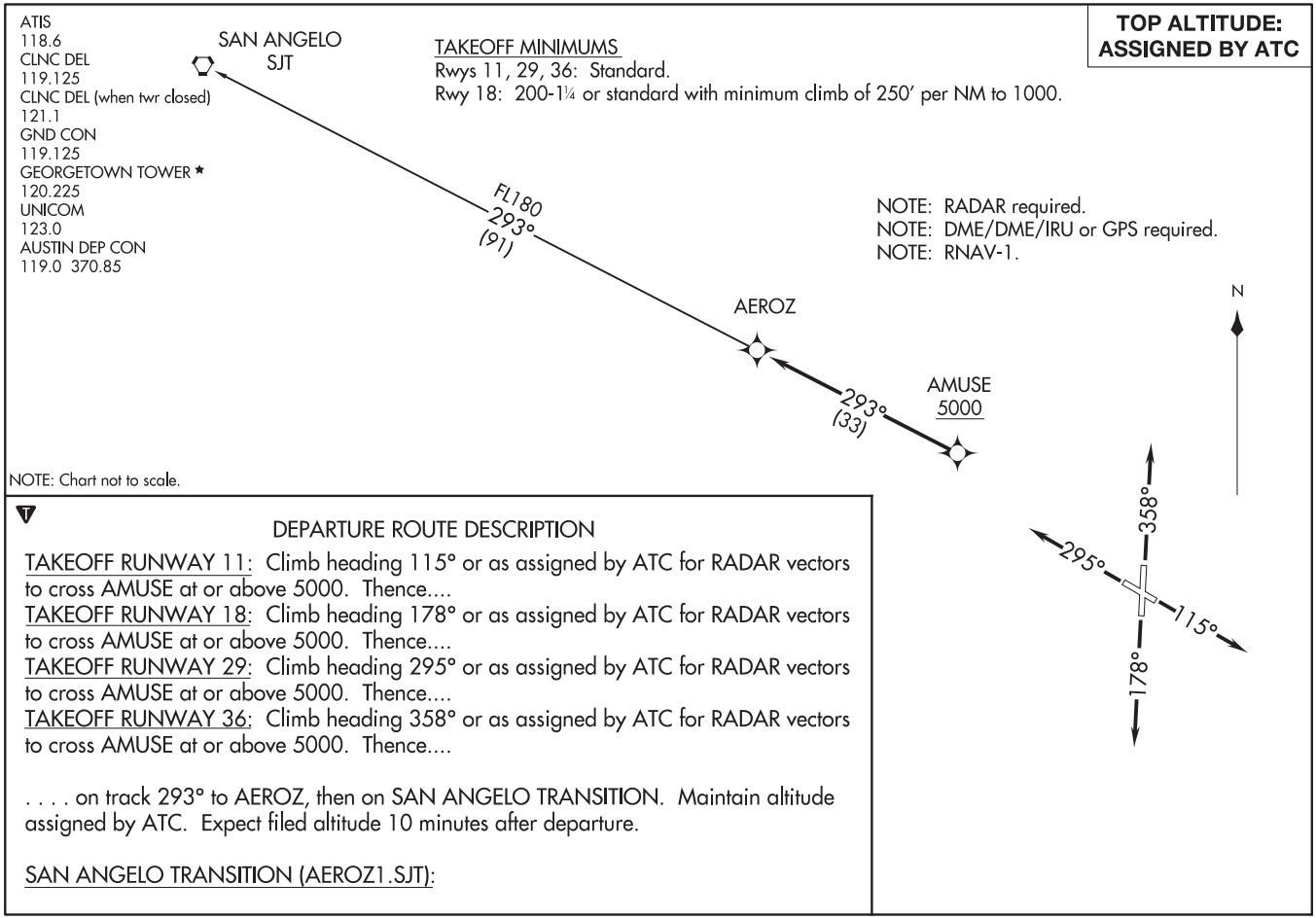
AIRPORT DIAGRAM
20086
GEORGETOWN, TEXAS
GEORGETOWN MUNI (GTU)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.6
CLNC DEL
119.125
CLNC DEL (when twr closed)
121.1
GND CON
119.125
GEORGETOWN TOWER ★
120.225
UNICOM
123.0
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS
Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with minimum climb of 250′ per NM to 1000.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....

. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SAN ANGELO TRANSITION (AEROZ1.SJT):

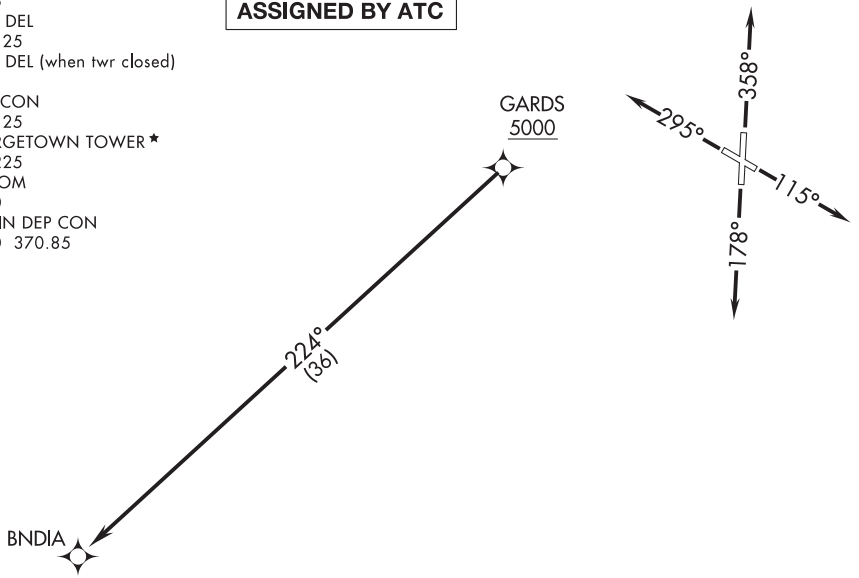
(BNDIA2.BNDIA) 20142 AL-5724 (FAA)

BNDIA TWO DEPARTURE (RNAV)

GEORGETOWN MUNI (GTU)
GEORGETOWN, TEXAS

ATIS
118.6
CLNC DEL
119.125
CLNC DEL (when twr closed)
121.1
GND CON
119.125
GEORGETOWN TOWER ★
120.225
UNICOM
123.0
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with a minimum climb of 250′ per NM to 1000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....

. . . . on track 224° to BNDIA Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

ELOEL TWO DEPARTURE (RNAV)

AL-5724 (FAA)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.6
CLNC DEL (when twr closed)
119.125
CLNC DEL
121.1
GND CON
119.125
★GEORGETOWN TOWER
120.225
AUSTIN DEP CON
119.0 370.85

ABILENE
ABI

FL180
307°
(120)

KLNGR

FORSS

10500
*2700
338°
(20)

10500
*2700
329°
(18)

ELOEL

338°
(10)

WLMRT
5000

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with a minimum climb of 250′ per NM to 1000.

NOTE: Chart not to scale.

358°
295°
115°
178°

DEPARTURE ROUTE DESCRIPTION

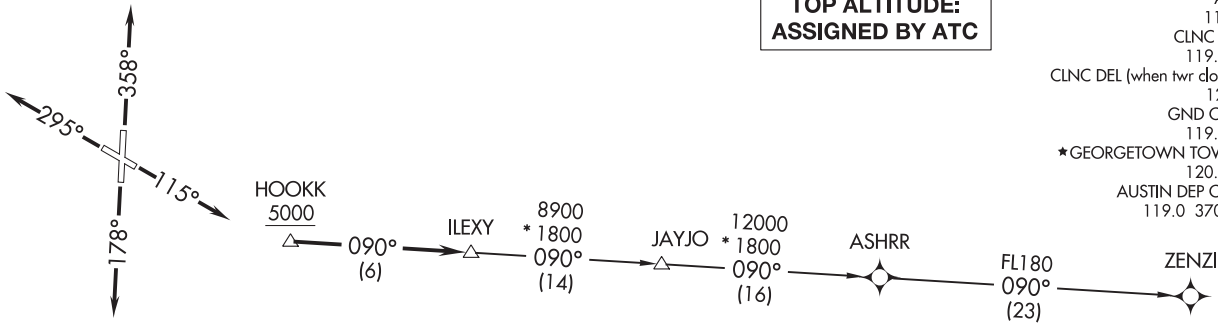
TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....

. . . . on track 338° to ELOEL, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (ELOEL2.ABI):
FORSS TRANSITION (ELOEL2.FORSS):
KLNGR TRANSITION (ELOEL2.KLNGR):

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.6
CLNC DEL
119.125
CLNC DEL (when twr closed)
121.1
GND CON
119.125
★GEORGETOWN TOWER
120.225
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS
Rwys 11, 29, 36: Standard.
Rwys 18: 200-1¼ or standard with minimum climb of 250′ per NM to 1000.

N

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....

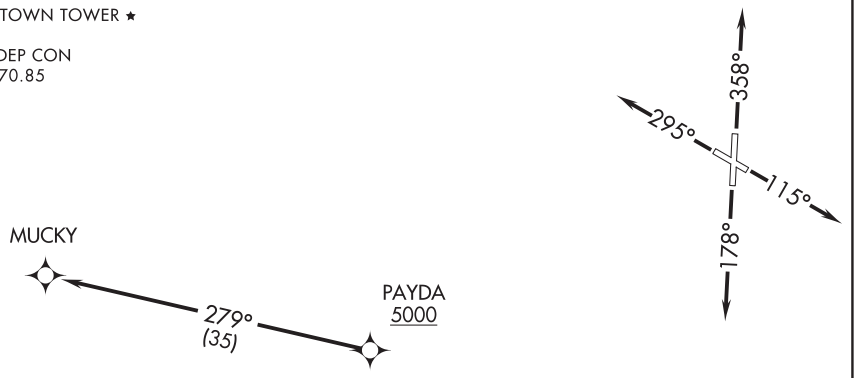
. . . . on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSITION (ILEXY2.ZENZI):

MUCKY TWO DEPARTURE(RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.6
CLNC DEL
119.125
CLNC DEL (when twr closed)
121.1
GND CON
119.125
GEORGETOWN TOWER ★
120.225
AUSTIN DEP CON
119.0 370.85



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with a minimum climb of 250′ per NM to 1000.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .

. . . .on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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(SAYBR2.SAYBR) 20142

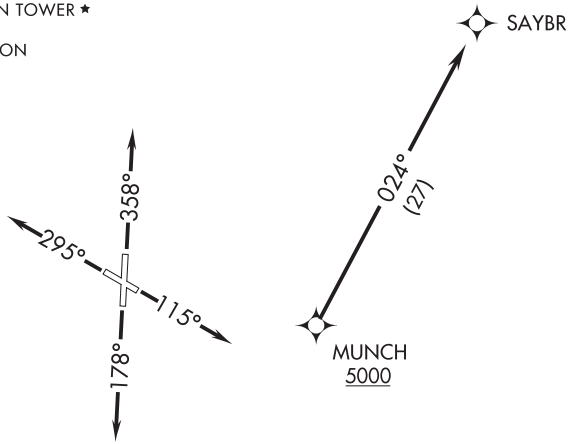
SAYBR TWO DEPARTURE (RNAV)

AL-5724 (FAA)

GEORGETOWN MUNI(GTU)
GEORGETOWN, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ATIS
118.6
CLNC DEL
119.125
CLNC DEL (when twr closed)
121.1
GND CON
119.125
UNICOM
123.0
GEORGETOWN TOWER ★
120.225
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS:
Rwys 11, 29, 36: Standard.
Rwy 18: 200-1¼ or standard with a minimum climb 250′ per NM to 1000.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 11: Climb heading 115° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .
TAKEOFF RUNWAY 18: Climb heading 178° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .
TAKEOFF RUNWAY 29: Climb heading 295° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .
TAKEOFF RUNWAY 36: Climb heading 358° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .

. . . .on track 024° to SAYBR. Maintain altitude assigned by ATC.
Expect filed altitude 10 minutes after departure.

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BERCLAIR, TEXAS

RNAV (GPS) RWY 11

APCH CRS	Rwy ldg	8000
105°	TDZE	318
	Arpt Elev	322

AL-2440 [USN]

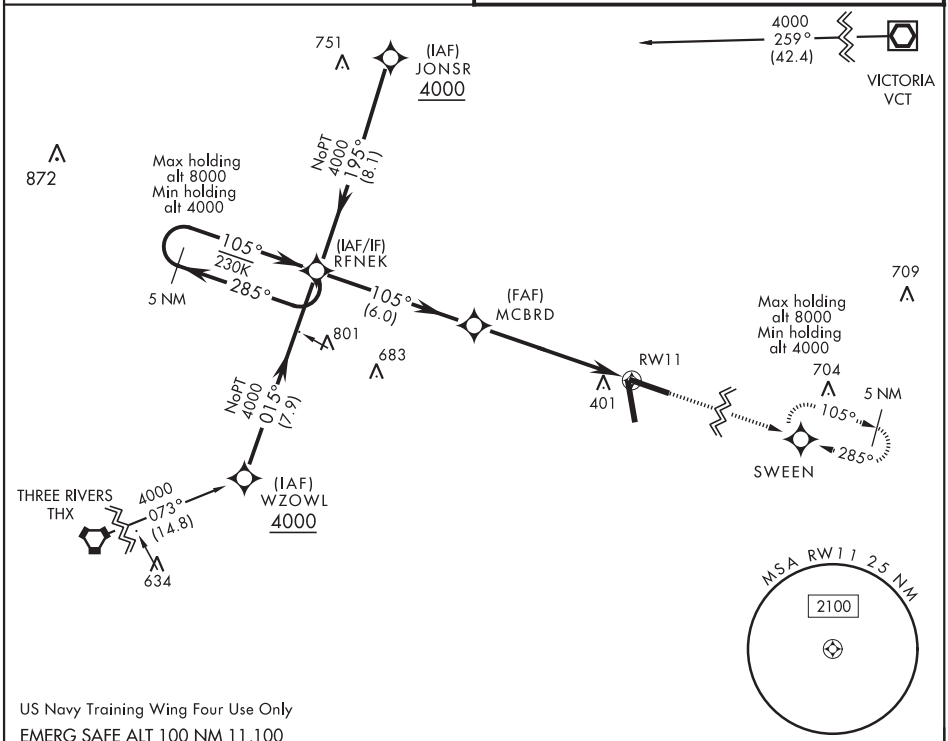
GOLIAD NOLF (KNGT)

RNP APCH - DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Beeville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct SWEEN and hold, continue climb-in-hold to 4000.

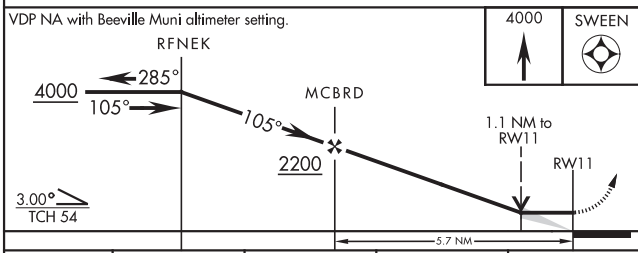
ASOS	CTAF
353.675	132.875 307.075



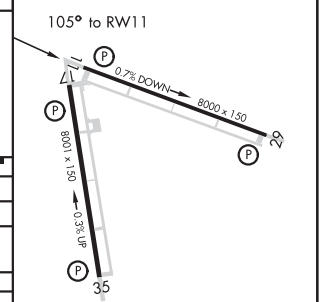
US Navy Training Wing Four Use Only

EMERG SAFE ALT 100 NM 11,100

VDP NA with Beeville Muni altimeter setting.



ELEV 322 TDZE 318



HIRL Rwy 11-29, 17-35
TDZL Rwy 11-29, 17-35

CATEGORY	A	B	C	D
LNAV MDA	720-1 402 (400-1)		720-1⅛ 402 (400-1⅛)	
C CIRCLING	760-1 438 (500-1)	780-1 458 (500-1)	780-1½ 458 (500-1½)	880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	760-1 442 (500-1)		760-1⅜ 442 (500-1⅜)	
C CIRCLING	800-1 478 (500-1)		800-1½ 478 (500-1½)	880-2 558 (600-2)

BERCLAIR, TEXAS 28°37′N-97°37′W GOLIAD NOLF (KNGT)

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RNAV (GPS) RWY 11

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20310

BERCLAIR, TEXAS

RNAV (GPS) RWY 17

APCH CRS		
166°	Rwy ldg	8001
	TDZE	322
	Arpt Elev	322

AL-2440 [USN]

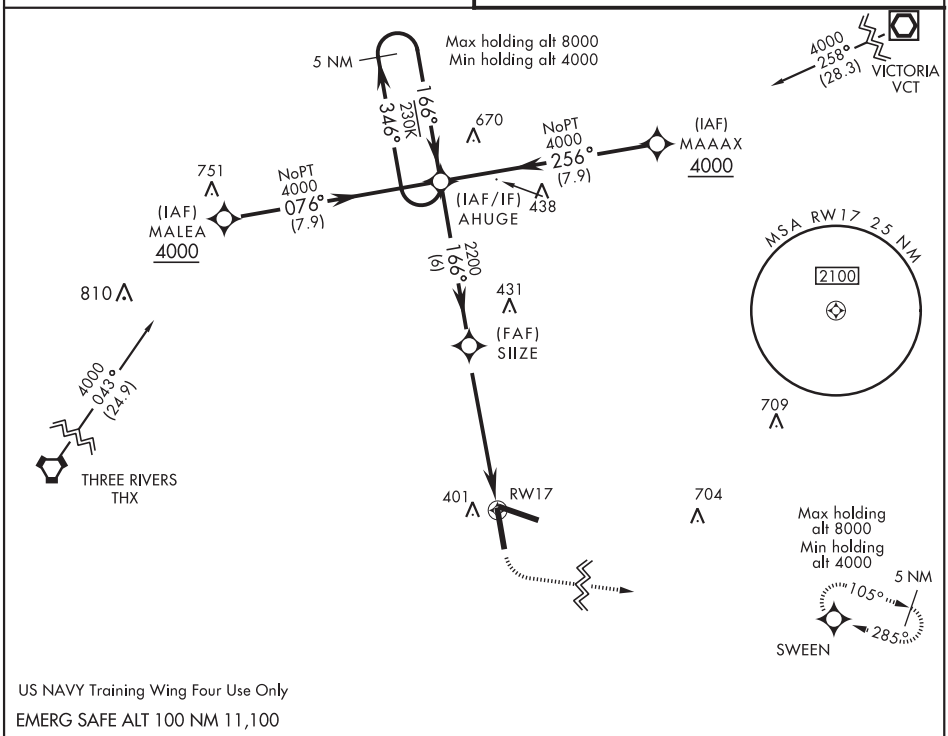
GOLIAD NOLF (KNGT)

RNP APCH - DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Beeville Muni altimeter setting.

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000.

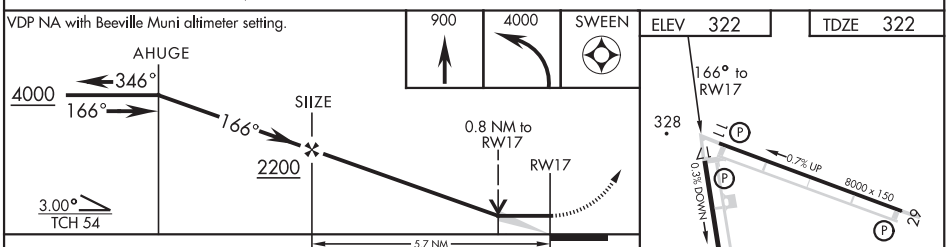
ASOS	CTAF
353.675	132.875 307.075



US NAVY Training Wing Four Use Only

EMERG SAFE ALT 100 NM 11,100

VDP NA with Beeville Muni altimeter setting.



CATEGORY	A	B	C	D
LNAV MDA	640-1 318 (400-1)			
C CIRCLING	760-1 438 (500-1)	780-1 458 (500-1)	780-1½ 458 (500-1½)	880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	680-1 358 (400-1)			
C CIRCLING	800-1 478 (500-1)		800-1½ 478 (500-1½)	880-2 558 (600-2)

HIRL Rwy 11-29, 17-35
TDZL Rwy 11-29, 17-35

BERCLAIR, TEXAS 28°37′N-97°37′W GOLIAD NOLF (KNGT)

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RNAV (GPS) RWY 17

SC-3, 25 FEB 2021 to 22 APR 2021

BERCLAIR, TEXAS

RNAV (GPS) RWY 29

APCH CRS	Rwy ldg	8000
285°	TDZE	285
	Arpt Elev	322

AL-2440 [USN]

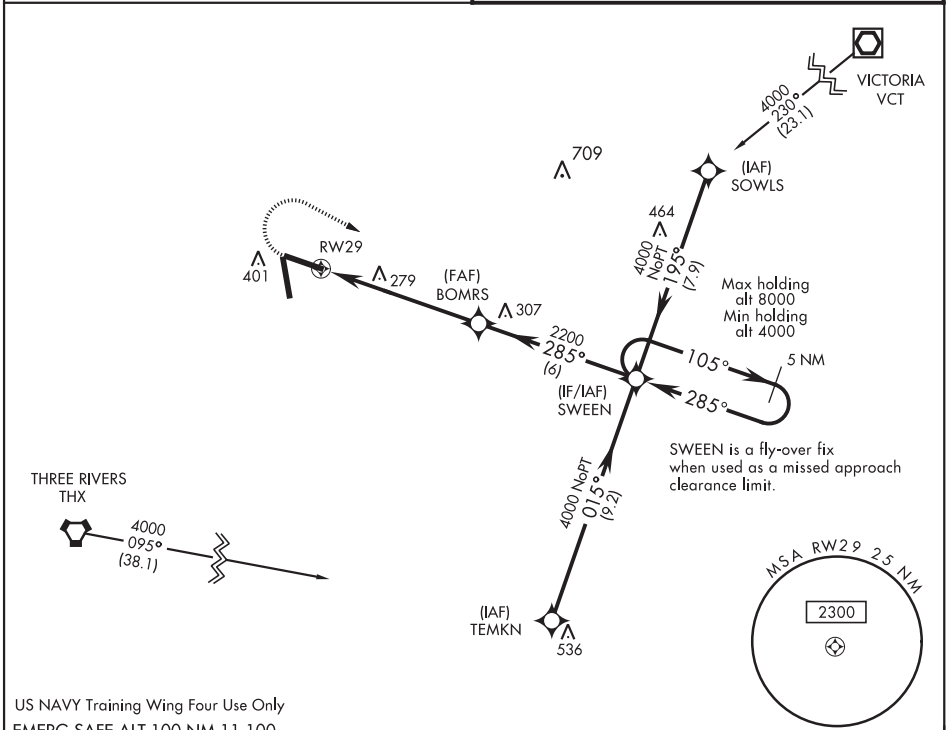
GOLIAD NOLF (KNGT)

RNP APCH - DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Beeville Muni altimeter setting.

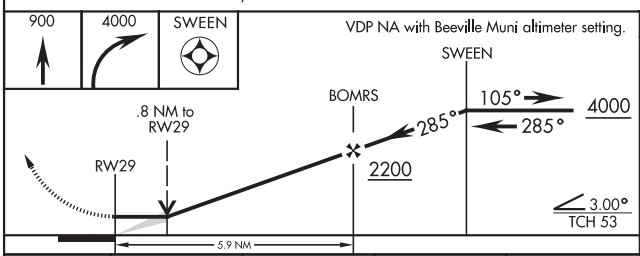
MISSED APPROACH: Climb to 900 then climbing right turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000.

ASOS	CTAF
353.675	132.875 307.075

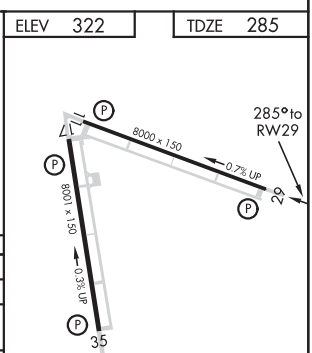


US NAVY Training Wing Four Use Only

EMERG SAFE ALT 100 NM 11,100



ELEV 322	TDZE 285



HIRL Rwy 11-29, 17-35
TDZL Rwy 11-29, 17-35

CATEGORY	A	B	C	D
LNAV MDA	580-1 295 (300-1)			
C CIRCLING	760-1 438 (500-1)	780-1 458 (500-1)	780-1½ 458 (500-1½)	880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	640-1 355 (400-1)			
C CIRCLING	800-1 478 (500-1)		800-1½ 478 (500-1½)	880-2 558 (600-2)

BERCLAIR, TEXAS 28°37′N-97°37′W GOLIAD NOLF (KNGT)

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RNAV (GPS) RWY 29

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20310

BERCLAIR, TEXAS

RNAV (GPS) RWY 35

APCH CRS		
346°	Rwy ldg	8001
	TDZE	307
	Arpt Elev	322

AL-2440 [USN]

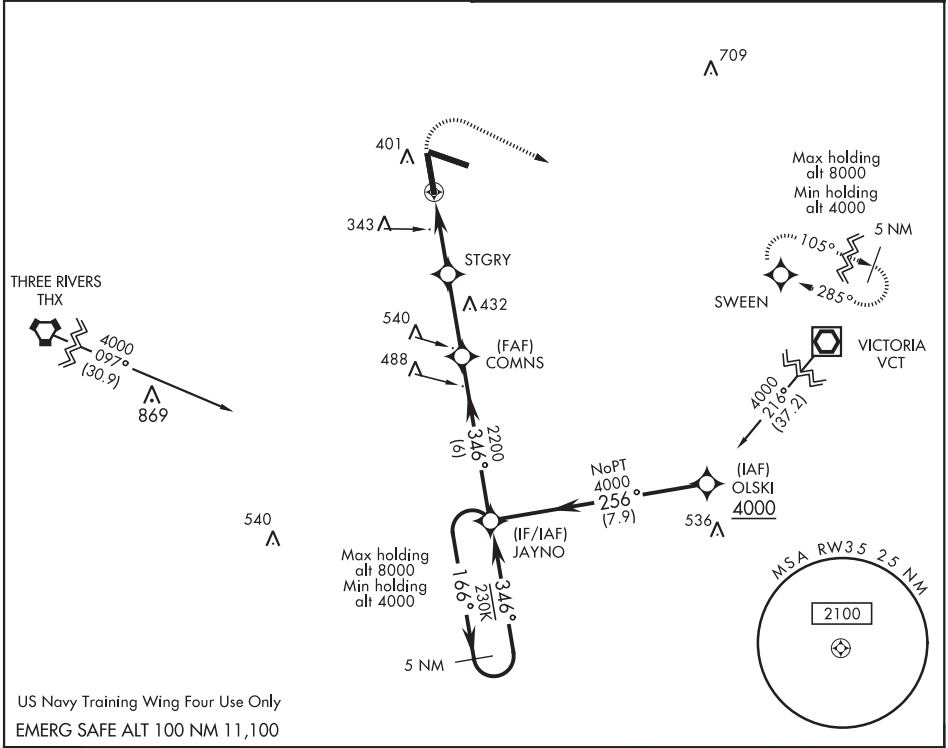
GOLIAD NOLF (KNGT)

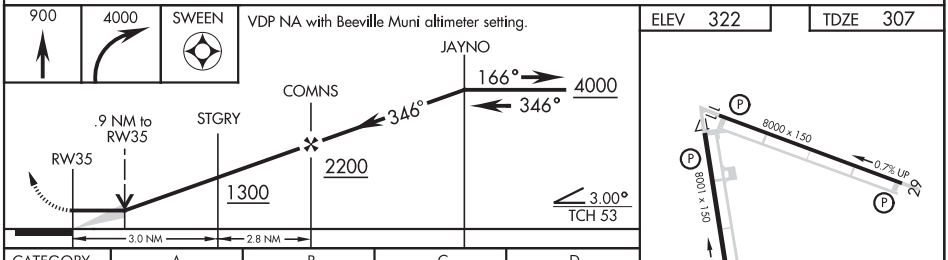
RNP APCH - DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Beeville Muni altimeter setting.

MISSED APPROACH: Climb to 900 then climbing right turn to 4000 direct SWEEN and hold, continue climb-in-hold to 4000.

ASOS	CTAF
353.675	132.875 307.075





ELEV 322 TDZE 307

CATEGORY	A	B	C	D
LNAV MDA	640-1 333 (400-1)			
C CIRCLING	760-1 438 (500-1)	780-1 458 (500-1)	780-1½ 458 (500-1½)	880-2 558 (600-2)
BEEVILLE MUNI ALTIMETER SETTING MINIMA				
LNAV MDA	680-1 373 (400-1)			
C CIRCLING	800-1 478 (500-1)		800-1½ 478 (500-1½)	880-2 558 (600-2)

BERCLAIR, TEXAS 28°37'N-97°37'W GOLIAD NOLF (KNGT)

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RNAV (GPS) RWY 35

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WAAS CH 72629 W18A	APP CRS 182°	Rwy ldg 5012 TDZE 1305 Apt Elev 1305

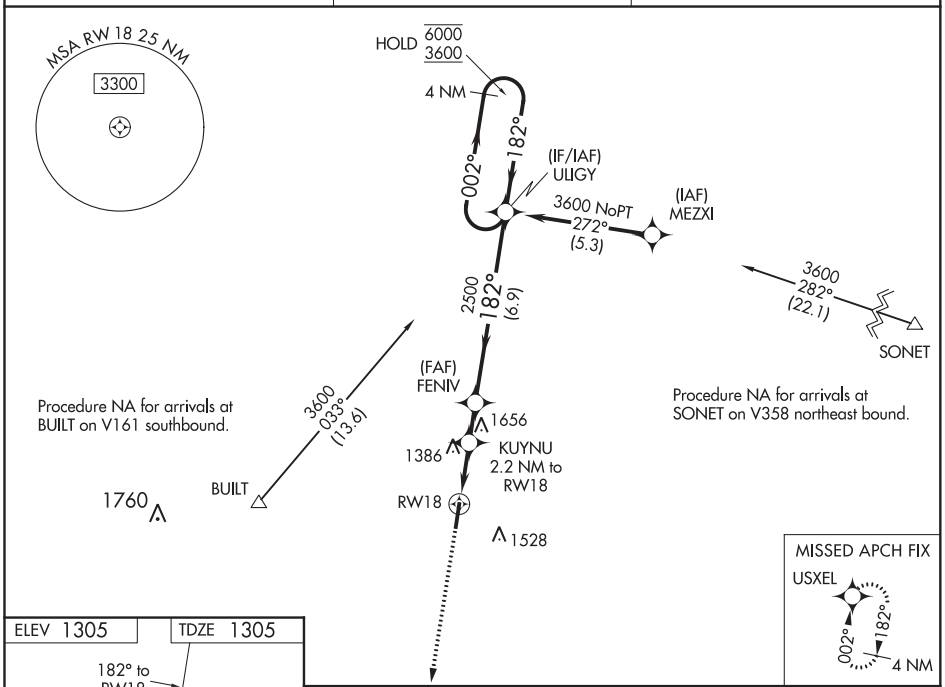
RNAV (GPS) RWY 18
HAMILTON MUNI (MNZ)

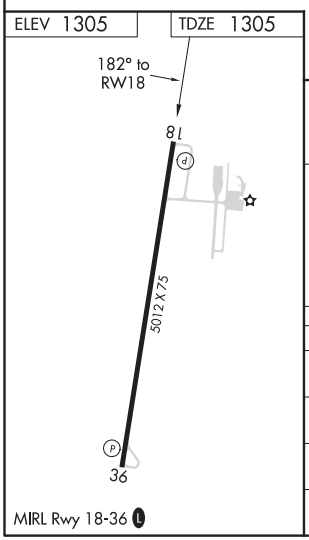
RNP APCH.

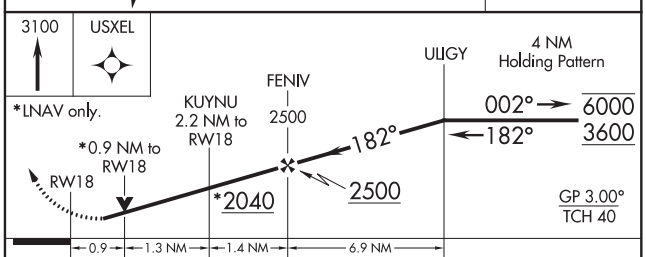
Rwy 18 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

MISSED APPROACH: Climb to 3100 direct USXEL and hold.

AWOS-3	GRAY APP CON	UNICOM
118.525	120.075 323.15	122.7 (CTAF)







CATEGORY	A	B	C	D
LPV DA	1555-1 250 (300-1)			NA
LNAV/VNAV DA	1555-1 250 (300-1)			NA
LNAV MDA	1640-1 335 (400-1)			NA
CIRCLING	1680-1 375 (400-1)	1760-1 455 (500-1)	1900-1½ 595 (600-1½)	NA

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HAMILTON, TEXAS

AL-6984 (FAA)

20366

RNAV (GPS) RWY 36
HAMILTON MUNI (MNZ)

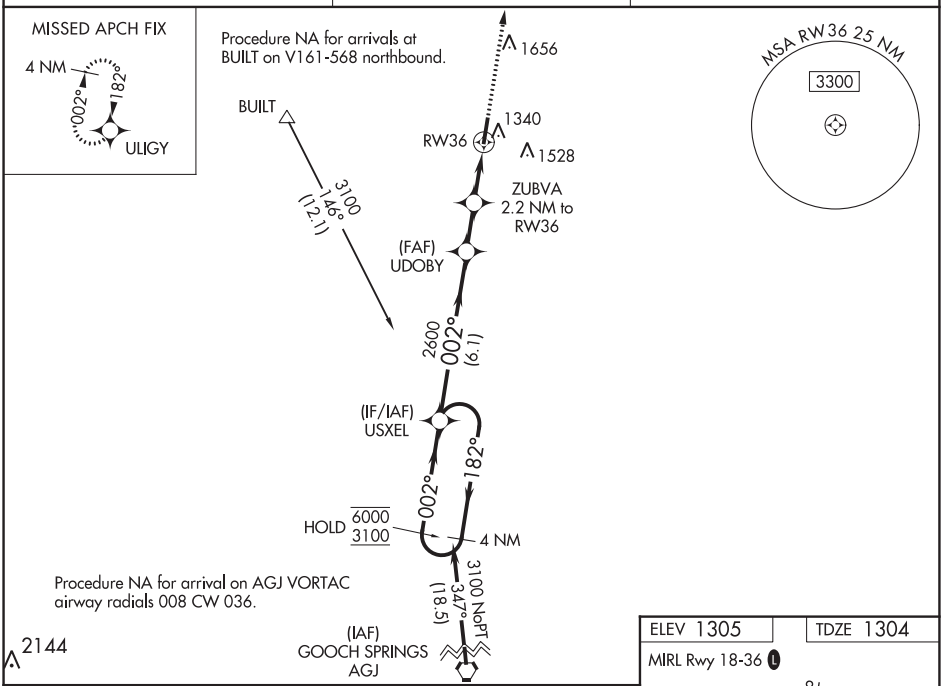
WAAS CH 50229 W36A	APP CRS 002°	Rwy ldg 5012 TDZE 1304 Apt Elev 1305

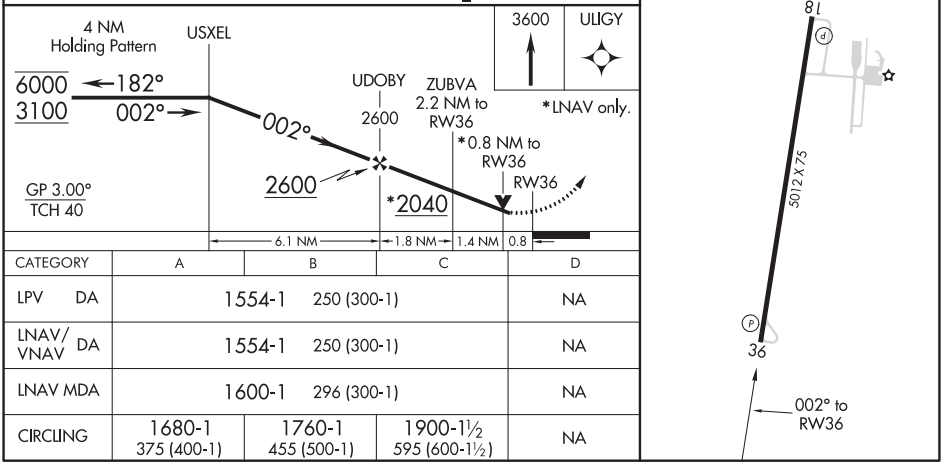
RNP APCH.

Rwy 36 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C or above 54°C.

MISSED APPROACH: Climb to 3600 direct ULIGY and hold.

AWOS-3	GRAY APP CON	UNICOM
118.525	120.075 323.15	122.7 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	1554-1 250 (300-1)			NA
LNAV/VNAV DA	1554-1 250 (300-1)			NA
LNAV MDA	1600-1 296 (300-1)			NA
CIRCLING	1680-1 375 (400-1)	1760-1 455 (500-1)	1900-1½ 595 (600-1½)	NA

ILS or LOC RWY 17R
VALLEY INTL (HRL)

LOC/DME I-HRL	APP CRS	Rwy ldg	8301
111.5	176°	TDZE	35
Chan 52		Apt Elev	36

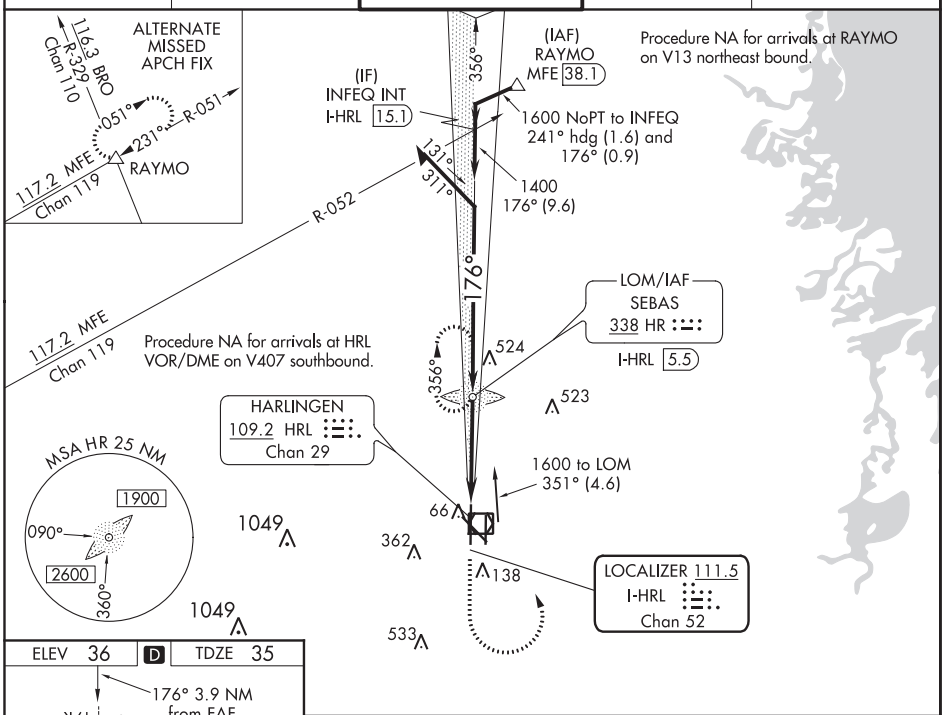
ADF or DME required.

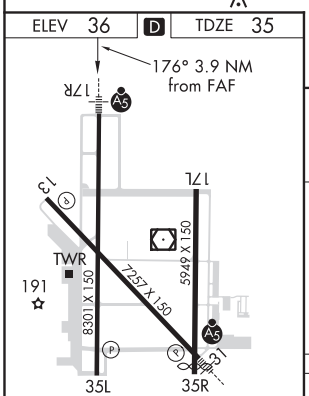
For inop ALS, increase S-ILS Cat E visibility to RVR 4000, increase S-LOC Cat E visibility to 1⅜ SM. Procedure turn NA Cat E. #RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 800 then climbing left turn to 1600 direct SEBAS LOM/I-HRL 5.5 DME and hold.

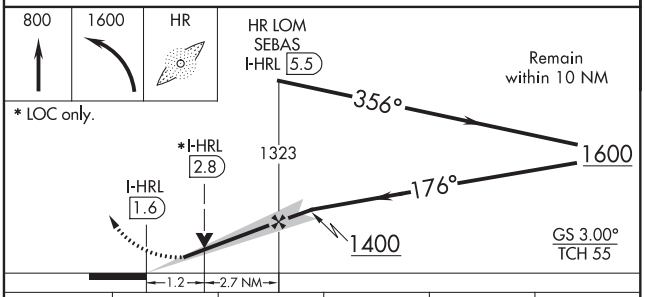
ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) 317.6	121.7	122.95





MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

FAF to MAP 3.9 NM					
Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18



CATEGORY	A	B	C	D	E
S-ILS 17R#	235/24 200 (200-½)				
S-LOC 17R	480/24 445 (500-½)		480/45 445 (500-⅞)		480/50 445 (500-1)
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)	NA

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HARLINGEN, TEXAS | AL-827 (FAA) | 20142

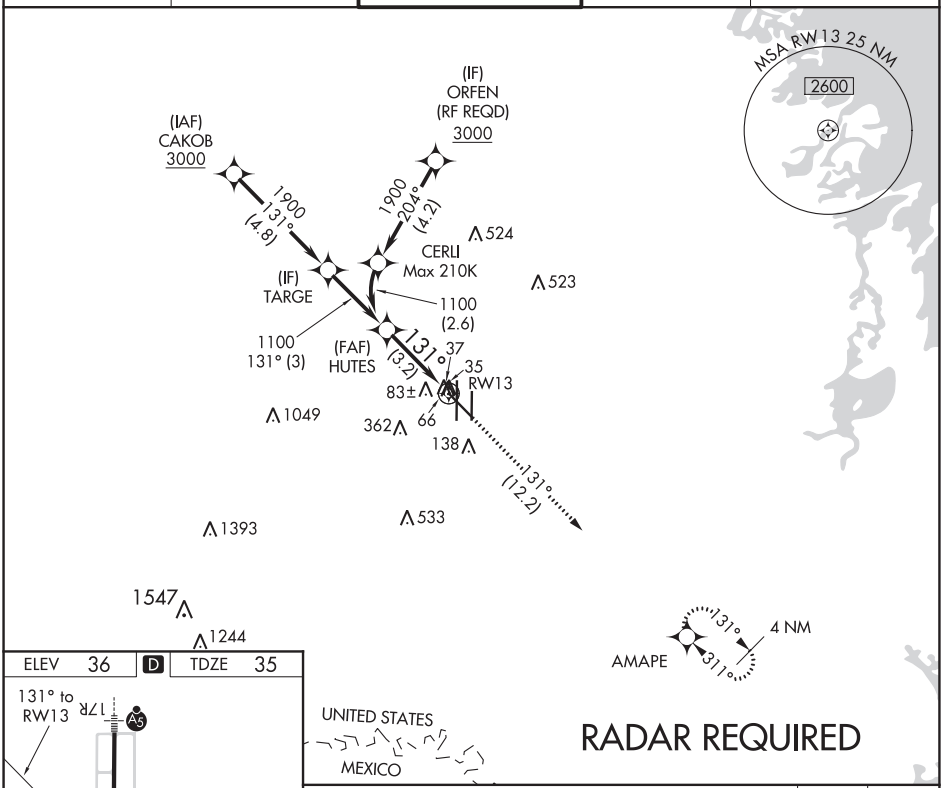
APP CRS	Rwy ldg	7257
131°	TDZE	35
	Apt Elev	36

RNAV (RNP) Z RWY 13
VALLEY INTL (HRL)

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS required.

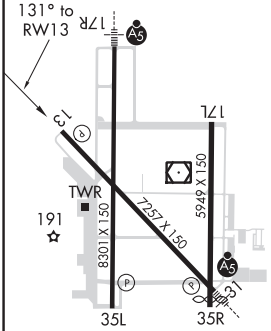
MISSED APPROACH: Climb to 2000 on track 131° to AMAPE and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95



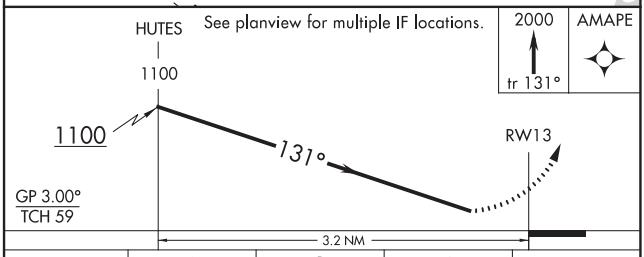
RADAR REQUIRED

ELEV 36	D	TDZE 35



MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.15 DA	302-⅞ 267 (300-⅞)			
RNP 0.30 DA	393-1⅛ 358 (400-1⅛)			

AUTHORIZATION REQUIRED

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APP CRS	Rwy ldg	8301
176°	TDZE	35
	Apt Elev	36

RNAV (RNP) Z RWY 17R
VALLEY INTL (HRL)

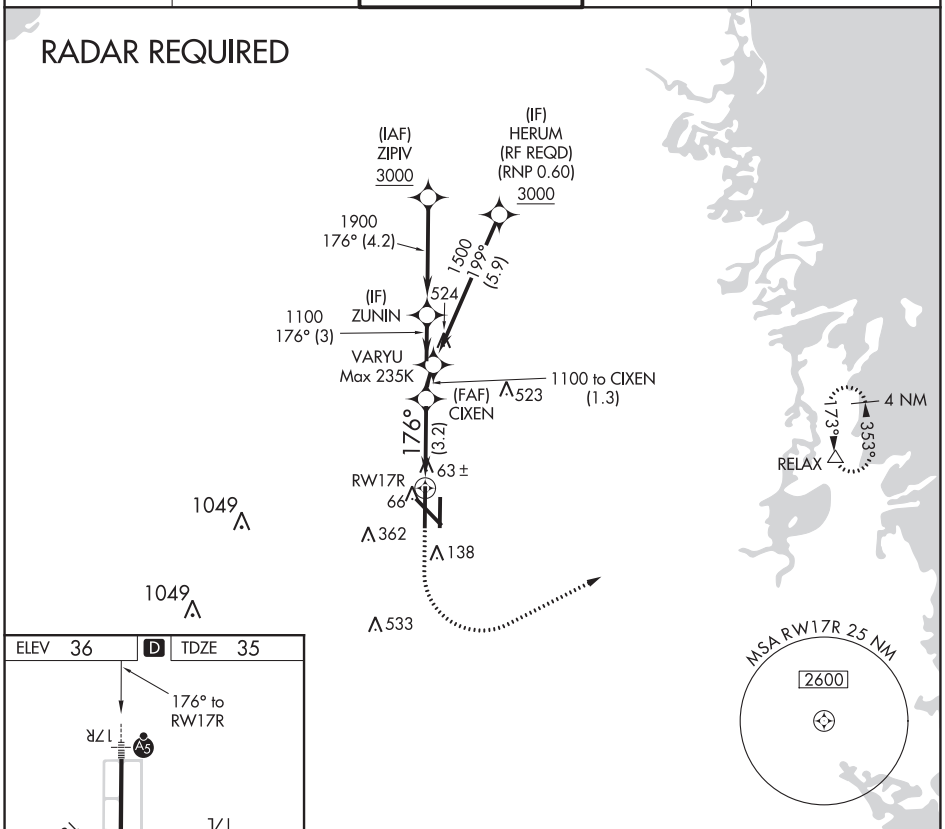
For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). For inoperative MALSR, increase RNP 0.3 all Cats visibility to RVR 4500. GPS Required.

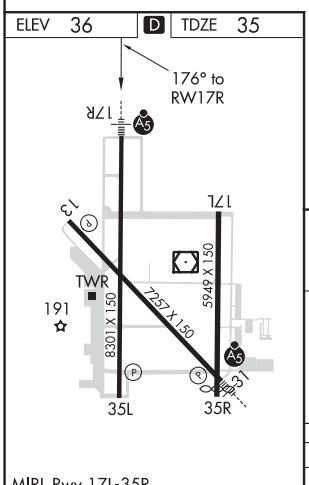
MALSR A5

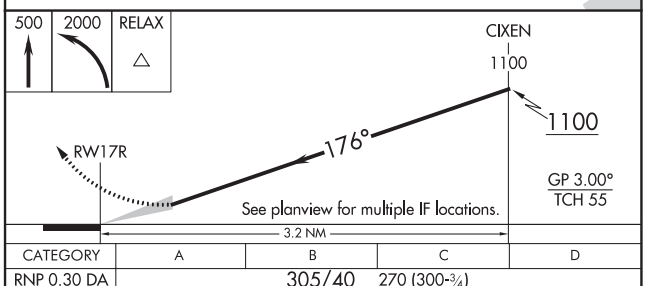
MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct RELAX and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER*	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95

RADAR REQUIRED







CATEGORY	A	B	C	D
RNP 0.30 DA	305/40	270 (300-¾)		

AUTHORIZATION REQUIRED

MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

HARLINGEN, TEXAS | AL-827 (FAA) | 20142

RNAV (RNP) Z RWY 31
VALLEY INTL (HRL)

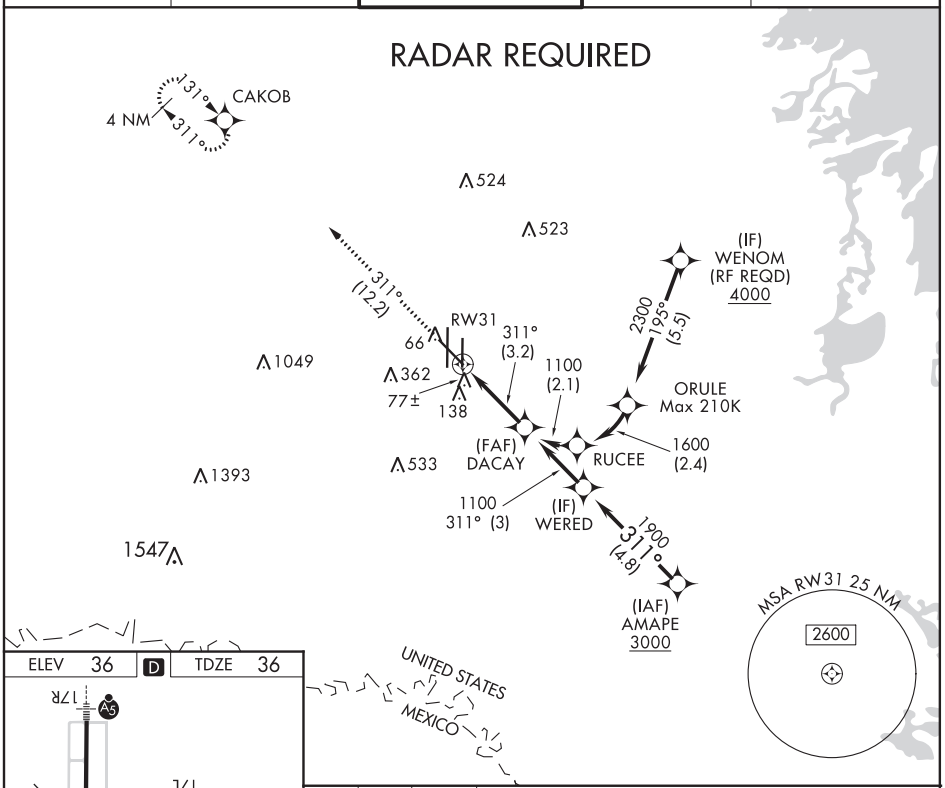
APP CRS	Rwy ldg	7257
311°	TDZE	36
	Apt Elev	36

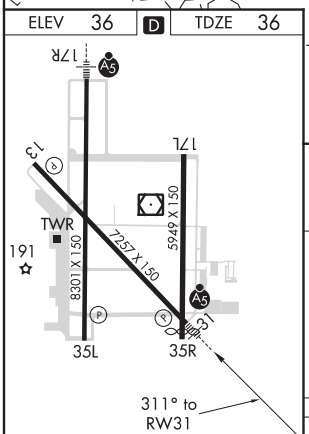
For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). GPS Required. For inop ALS, increase RNP 0.17 all Cats visibility to ⅞ SM, and RNP 0.30 all Cats visibility 1 SM.

MALSR

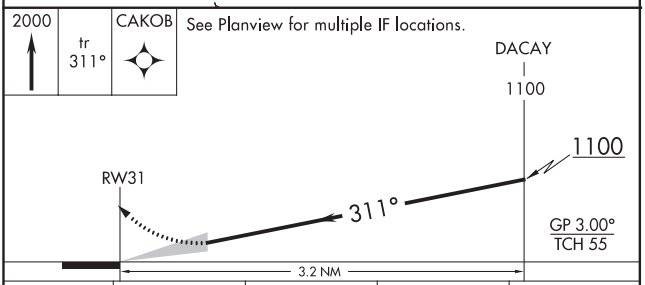
MISSED APPROACH: Climb to 2000 on track 311° to CAKOB and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95





MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
RNP 0.17 DA	310-½ 274 (300-½)			
RNP 0.30 DA	360-⅝ 324 (400-⅝)			

AUTHORIZATION REQUIRED

HARLINGEN, TEXAS | 26°14'N-97°39'W | VALLEY INTL (HRL)
Amdt 1 02MAR17

RNAV (RNP) Z RWY 31

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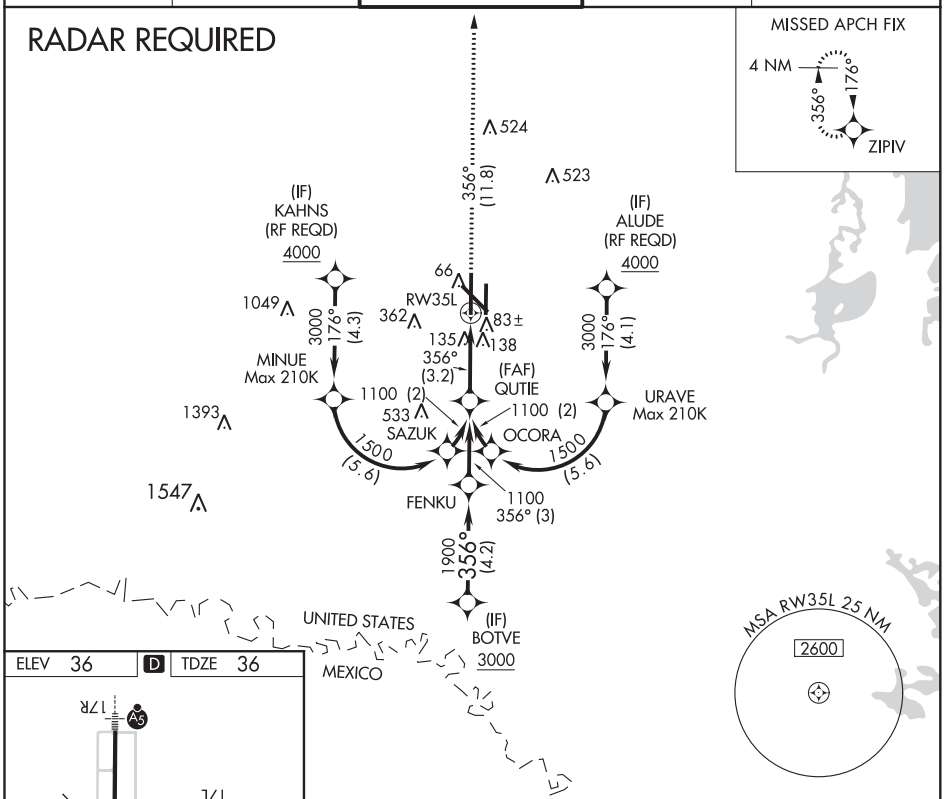
APP CRS	Rwy ldg	8301
356°	TDZE	36
	Apt Elev	36

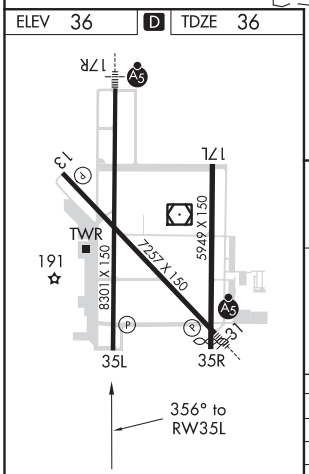
RNAV (RNP) Z RWY 35L
VALLEY INTL (HRL)

For uncompensated Baro-VNAV systems, procedure NA below 2°C (36°F) or above 54°C (130°F). When VGSI inoperative procedure NA at night. GPS required.

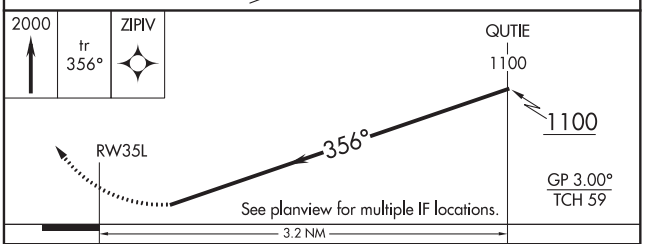
MISSED APPROACH: Climb to 2000 on track 356° to ZIPIV and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95





MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
RNP 0.14 DA	334-1	298 (300- 1)		
RNP 0.29 DA	388-1⅛	352 (400-1⅛)		
RNP 0.30 DA	479-1½	443 (500-1½)		

AUTHORIZATION REQUIRED

SC-3, 25 FEB 2021 to 22 APR 2021
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HARLINGEN, TEXAS AL-827 (FAA) 20282

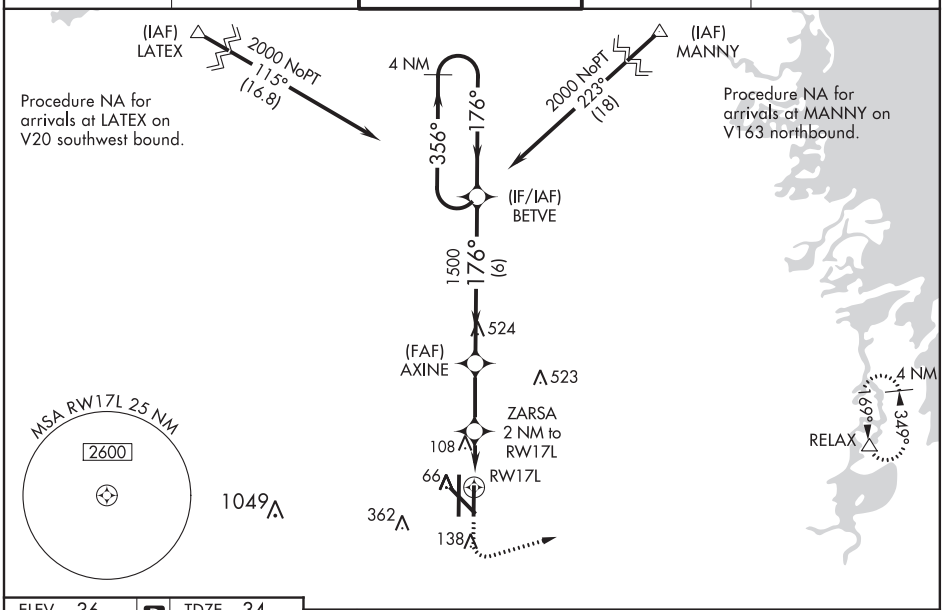
WAAS CH 90430 W17B	APP CRS 176°	Rwy ldg 5949 TDZE 34 Apt Elev 36

RNAV (GPS) RWY 17L
VALLEY INTL (HRL)

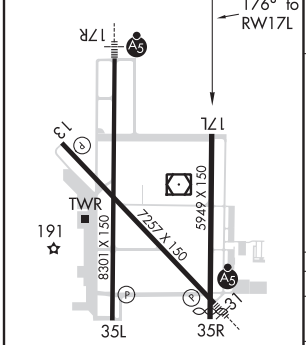
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting: increase LPV DA to 326 feet and all visibilities ⅛ SM; increase LNAV/VNAV DA to 392 feet and all visibilities ⅛ SM; increase all MDAs 60 feet and visibility Cats C and D ¼ SM. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct RELAX and hold.

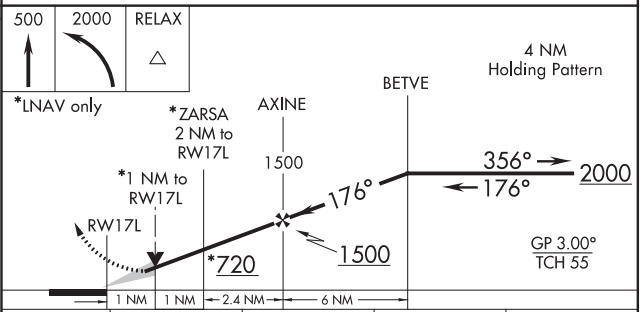
ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) 317.6	121.7	122.95



ELEV 36	D	TDZE 34



MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
LPV DA	284-¾ 250 (300-¾)			
LNAV/VNAV DA	350-1⅛ 316 (400-1⅛)			
LNAV MDA	400-1 366 (400-1)			
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

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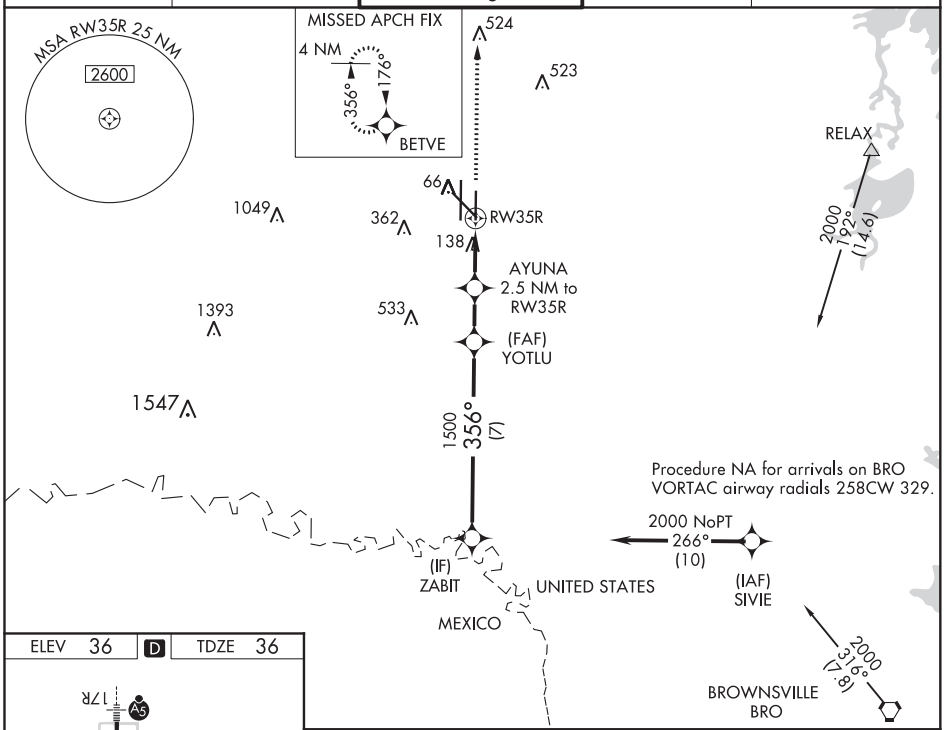
WAAS CH 72830 W35A	APP CRS 356°	Rwy ldg 5759 TDZE 36 Apt Elev 36

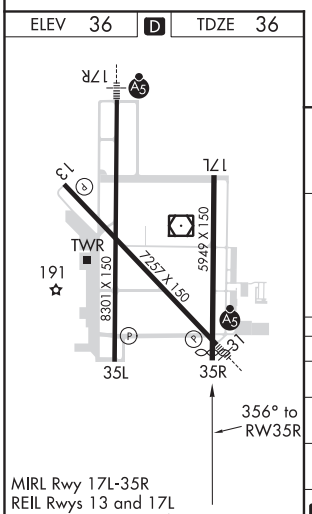
RNAV (GPS) RWY 35R
VALLEY INTL (HRL)

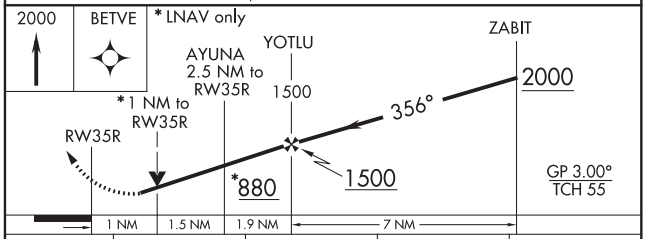
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting: increase all DAs to 328 feet and all visibilities ⅛ SM; increase all MDAs 60 feet and visibility Cats C and D ¼ SM. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

MISSED APPROACH: Climb to 2000 direct BETVE and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95







CATEGORY	A	B	C	D
LPV DA	286-¾ 250 (300-¾)			
LNAV/VNAV DA	286-¾ 250 (300-¾)			
LNAV MDA	400-1 364 (400-1)			
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

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WAAS CH 78230 W13A	APP CRS 131°	Rwy ldg 7257 TDZE 35 Apt Elev 36

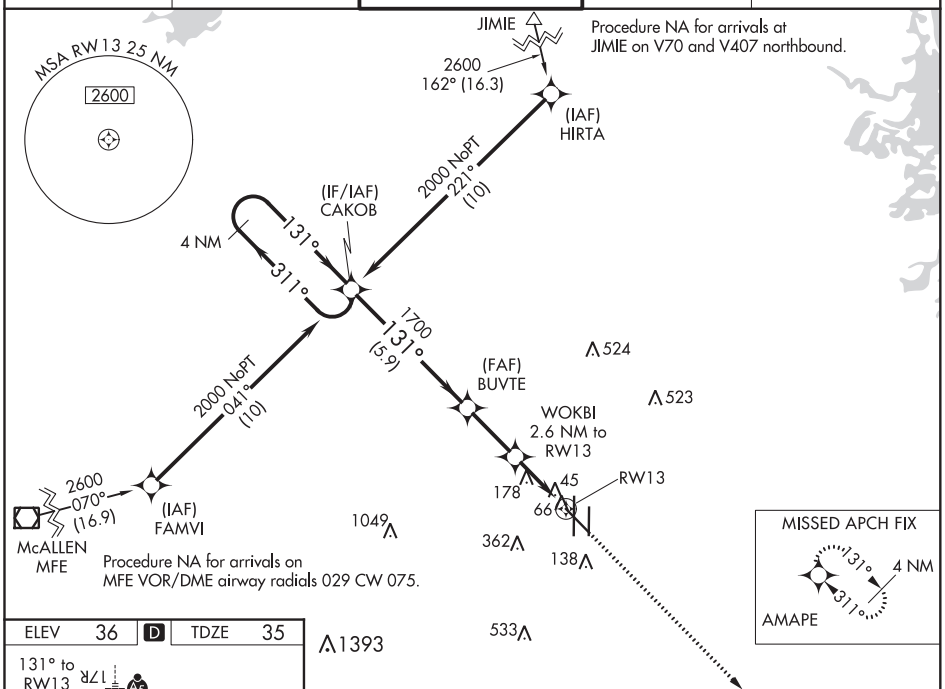
RNAV (GPS) Y RWY 13

VALLEY INTL (HRL)

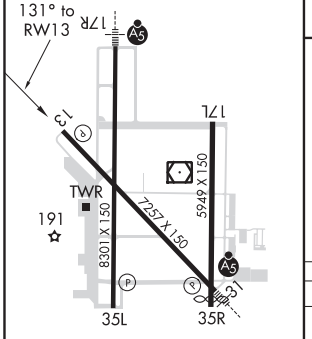
T A For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Port Isabel altimeter setting: increase LPV DA to 327 feet and all vsibilities ⅛ SM; increase LNAV/VNAV DA to 370 feet and all visibilities ⅛ SM; increase all MDAs 60 feet and visibility Cats C and D ¼ SM. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

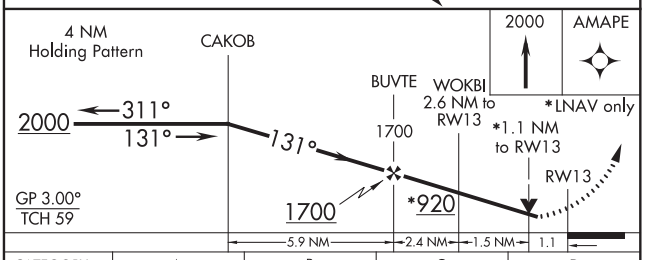
MISSED APPROACH: Climb to 2000 direct AMAPE and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95



ELEV 36	D	TDZE 35





CATEGORY	A	B	C	D
LPV DA	285-¾ 250 (300-¾)			
LNAV/VNAV DA	328-⅞ 293 (300-⅞)			
LNAV MDA	440-1 405 (500-1)		440-1⅛ 405 (500-1⅛)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 50131 W17A	APP CRS 176°	Rwy ldg 8301 TDZE 35 Apt Elev 36

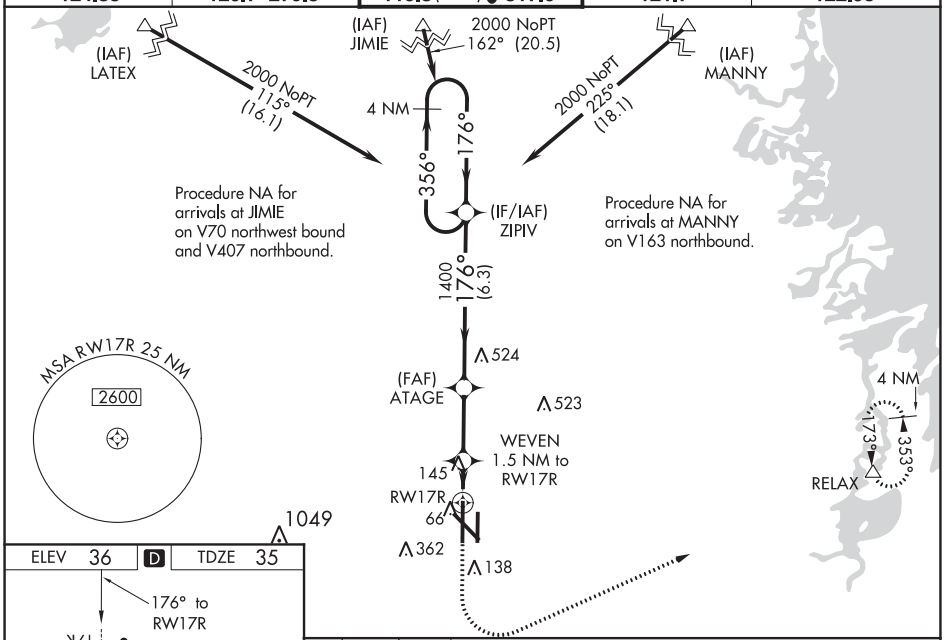
RNAV (GPS) Y RWY 17R
VALLEY INTL (HRL)

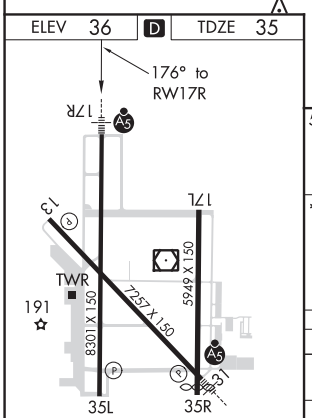
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C (36°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting: increase LPV DA to 277 feet; increase LNAV/VNAV DA to 327 feet; increase all MDAs 60 feet and visibility Cats C and D ¼ SM. For inoperative MALSR, increase LNAV/VNAV all Cats visibility to RVR 4000, LNAV all Cats visibility to RVR 5500. For inoperative MALSR, when using Port Isabel altimeter setting, increase LNAV/VNAV all Cats visibility to RVR 4500, LNAV Cats A and B visibility to RVR 5500 and Cats C and D visibility to 1¼ mile. Baro-VNAV NA with Port Isabel altimeter setting. VDP NA with Port Isabel altimeter setting. **RVR 1800 authorized with use of FD or AP or HUD to DA, NA when using Port Isabel altimeter setting.

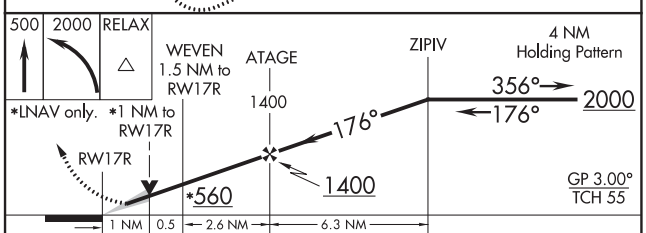
MALSR

MISSED APPROACH: Climb to 500 then climbing left turn to 2000 direct RELAX and hold

ATIS	VALLEY APP CON	HARLINGEN TOWER*	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95







CATEGORY	A	B	C	D
LPV DA **	235/24 200 (200-½)			
LNAV/VNAV DA	285/24 250 (300-½)			
LNAV MDA	400/24 365 (400-½)		400/35 365 (400-⅝)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

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HARLINGEN, TEXAS AL-827 (FAA) 20142

WAAS CH 82530 W31A	APP CRS 311°	Rwy ldg 7257 TDZE 36 Apt Elev 36

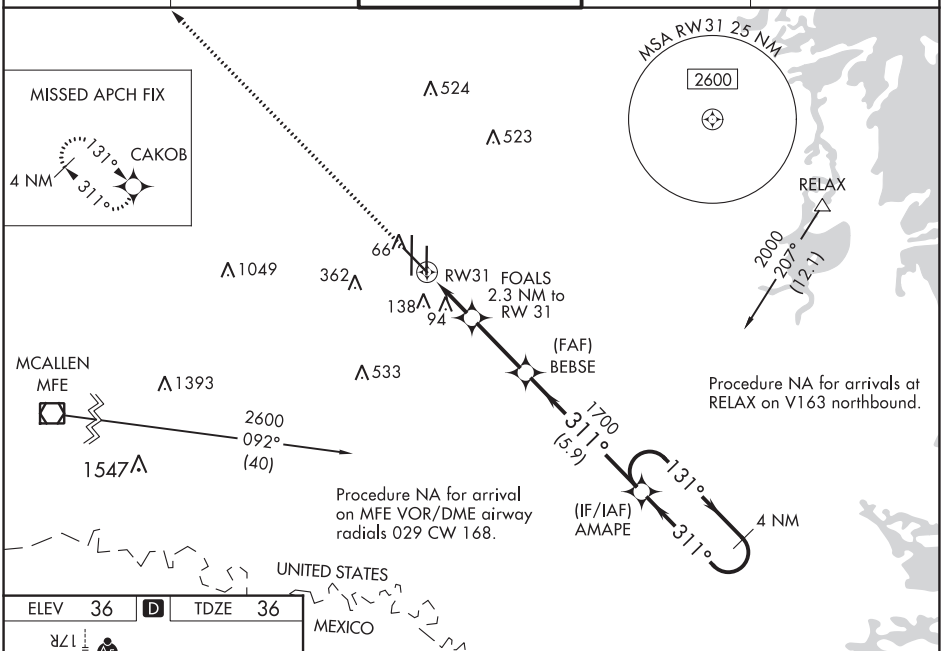
RNAV (GPS) Y RWY 31
VALLEY INTL (HRL)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 2°C (36°F) or above 54°C (130°F). DME/DME RNP-0.3 NA.

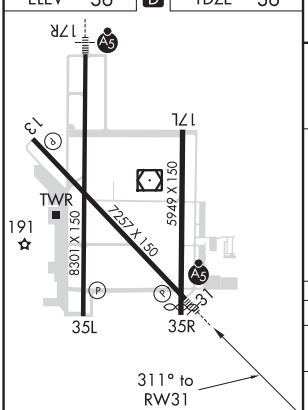
MALSR

MISSED APPROACH: Climb to 2000 direct CAKOB and hold.

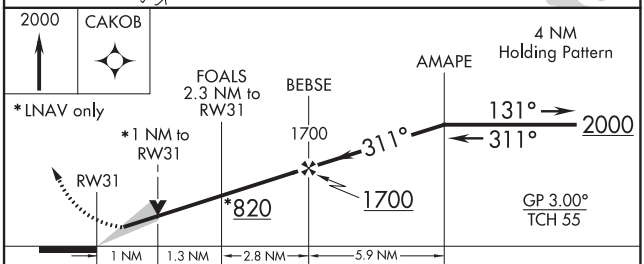
ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95



ELEV 36 D TDZE 36



MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
LPV DA	236-½ 200 (200-½)			
LNAV/VNAV DA	286-½ 250 (300-½)			
LNAV MDA	420-½ 384 (400-½)		420-⅝ 384 (400-⅝)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

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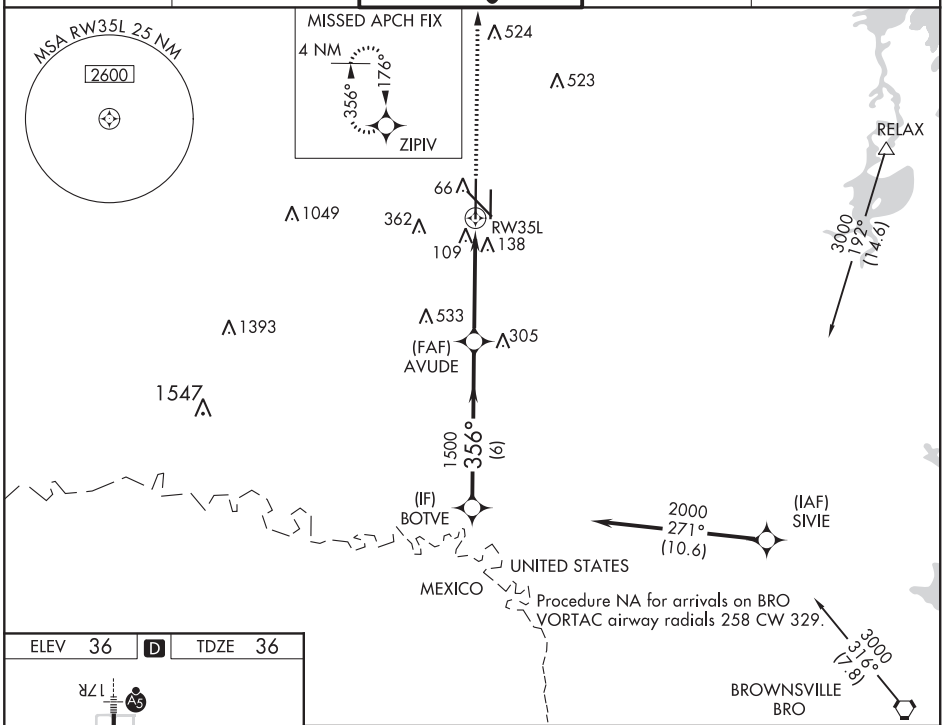
WAAS CH 86530 W35B	APP CRS 356°	Rwy ldg 8301 TDZE 36 Apt Elev 36

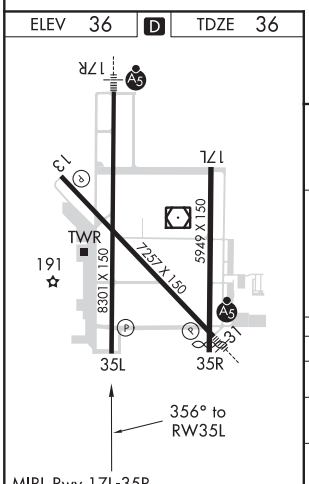
RNAV (GPS) Y RWY 35L
VALLEY INTL (HRL)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Port Isabel altimeter setting: increase LPV DA to 328 feet and all visibilities ⅛ SM; increase LNAV/VNAV DA to 418 feet and all visibilities ⅛ SM; increase all MDAs 60 feet and visibility Cats C and D ¼ SM. Baro-VNAV and VDP NA with Port Isabel altimeter setting.

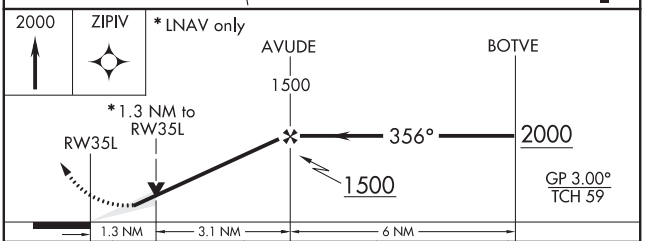
MISSED APPROACH: Climb to 2000 direct ZIPIV and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) (L) 317.6	121.7	122.95





MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L



CATEGORY	A	B	C	D
LPV DA	286-¾ 250 (300-¾)			
LNAV/VNAV DA	376-1⅛ 340 (400-1⅛)			
LNAV MDA	500-1 464 (500-1)		500-1⅜ 464 (500-1⅜)	
(C) CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

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HARLINGEN, TEXAS AL-827 (FAA) 20282

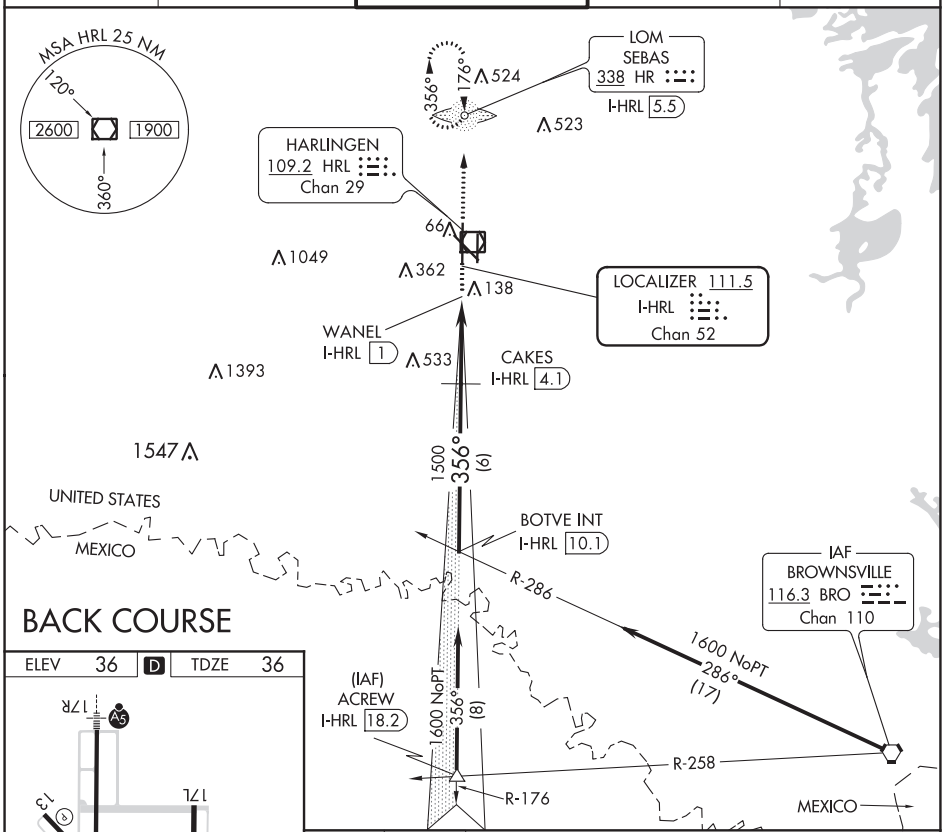
LOC/DME BC RWY 35L
VALLEY INTL (HRL)

LOC/DME I-HRL	APP CRS	Rwy ldg	8301
111.5	356°	TDZE	36
Chan 52		Apt Elev	36

LOC BC unusable from 1NM inbound.
Disregard glide slope indications.

MISSED APPROACH: Climb to 1600 via I-HRL north course to SEBAS/I-HRL 5.5 DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95



CATEGORY	A	B	C	D
S-35L	420-1½ 384 (400-1½)			
C CIRCLING	500-1½ 464 (500-1½)	560-1½ 524 (600-1½)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

HARLINGEN, TEXAS
Orig-A 08OCT20

26°14′N-97°39′W

VALLEY INTL (HRL)
LOC/DME BC RWY 35L

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VOR/DME HRL 109.2 Chan 29	APP CRS 160°	Rwy ldg 8301 TDZE 35 Apt Elev 36

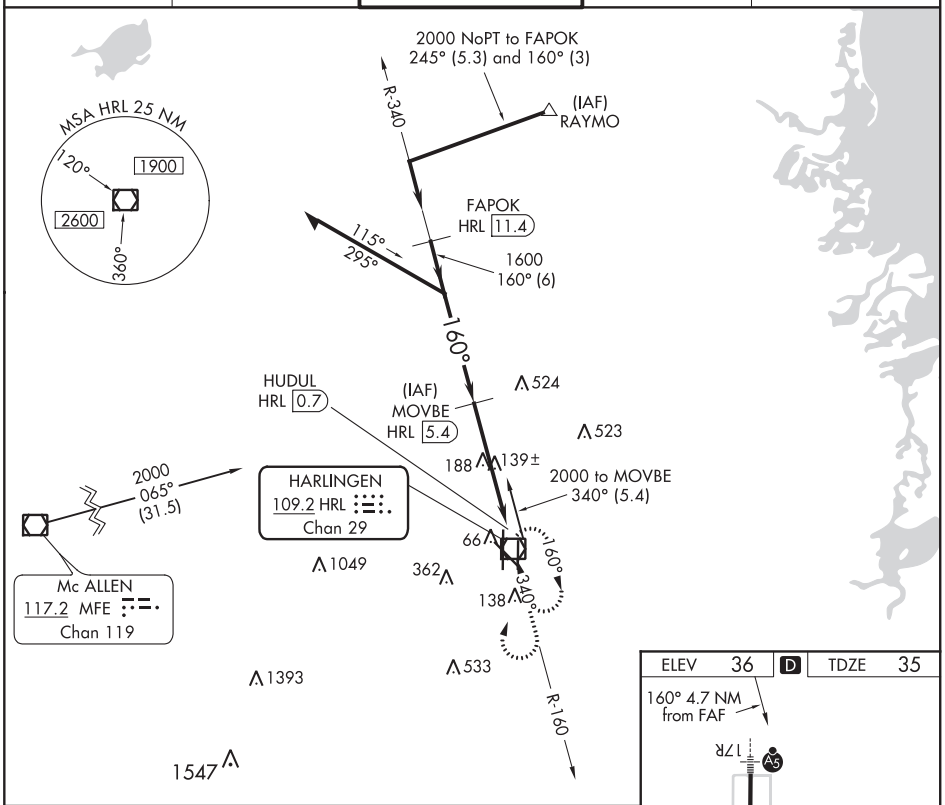
VOR/DME RWY 17R
VALLEY INTL (HRL)

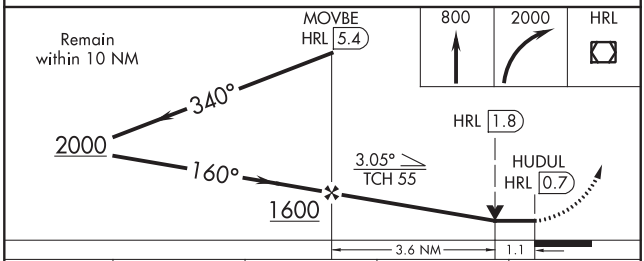
For inop ALS, increase S-17R Cat C/D visibility to RVR 6000.

MALSR

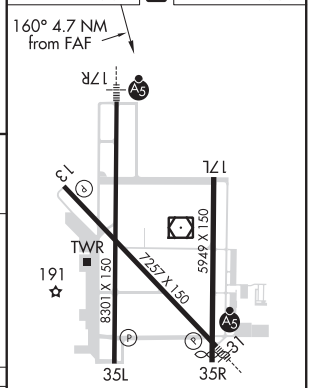
MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct HRL VOR/DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95





CATEGORY	A	B	C	D
S-17R	440/24	405 (500-½)	440/40	405 (500-¾)
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)



MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

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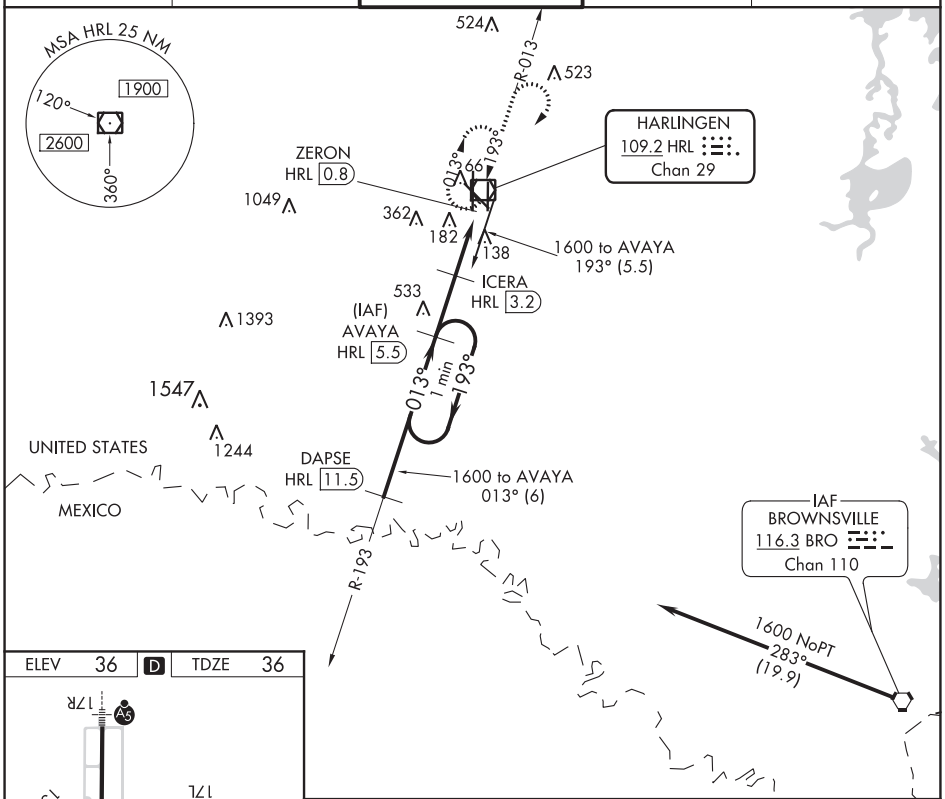
HARLINGEN, TEXAS AL-827 (FAA) 20282

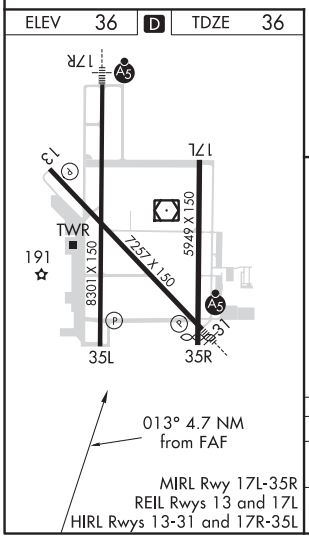
VOR/DME RWY 35L
VALLEY INTL (HRL)

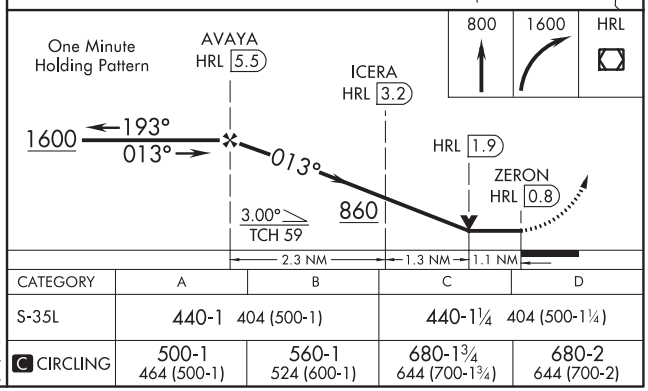
VOR/DME HRL	APP CRS	Rwy ldg	8301
109.2	013°	TDZE	36
Chan 29		Apt Elev	36

MISSED APPROACH: Climb to 800 then climbing right turn to 1600 direct HRL VOR/DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95







CATEGORY	A	B	C	D
S-35L	440-1 404 (500-1)		440-1¼ 404 (500-1¼)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

HARLINGEN, TEXAS
Orig-B 08OCT20

26°14′N-97°39′W

VALLEY INTL (HRL)
VOR/DME RWY 35L

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VORTAC BRO 116.3 Chan 110	APP CRS 311°	Rwy ldg 7257 TDZE 36 Apt Elev 36

VOR/DME Y or TACAN RWY 31

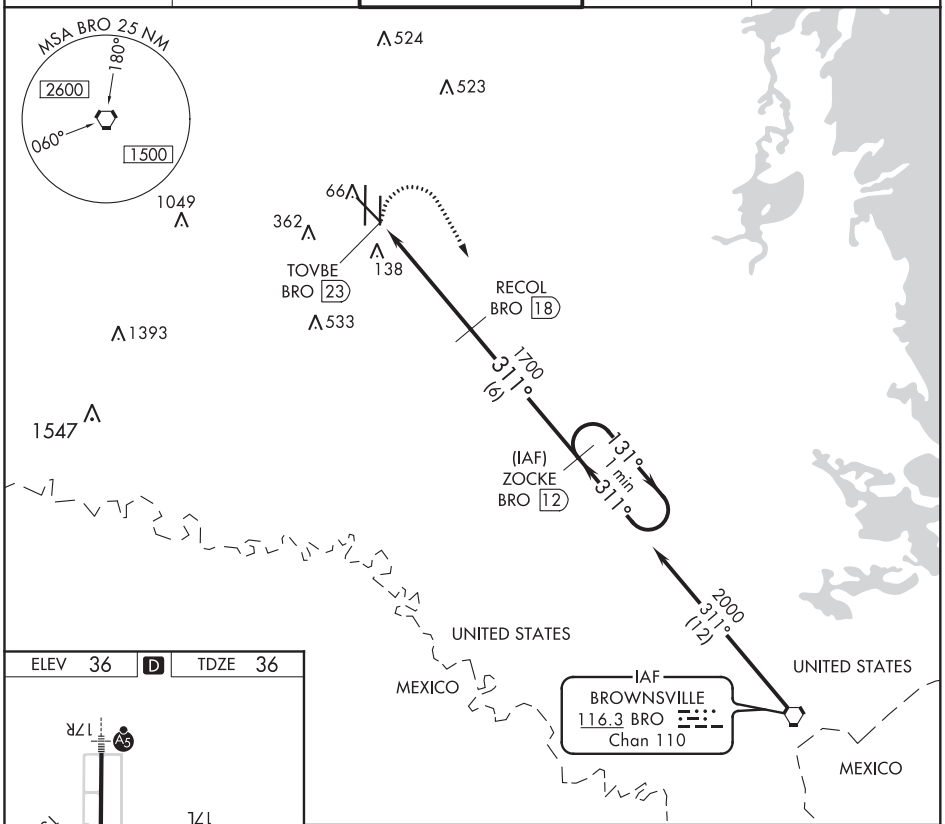
VALLEY INTL (HRL)

When local altimeter setting not received, use Port Isabel altimeter setting and increase all MDA 60 feet.

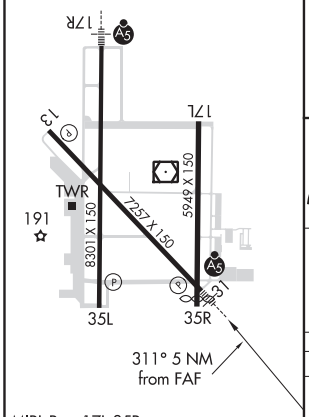
MALSR

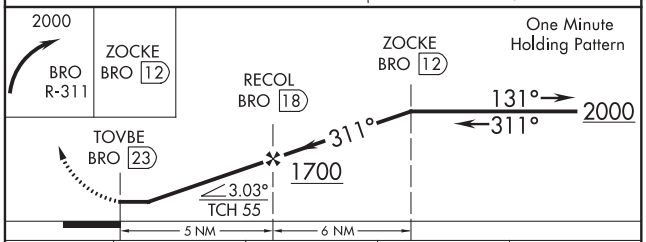
MISSED APPROACH: Climbing right turn to 2000 via BRO R-311 to ZOCKE/12 DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) 317.6	121.7	122.95



ELEV 36 D TDZE 36





CATEGORY	A	B	C	D
S-31	1000-1¼ 964 (1000-1¼)	1000-1½ 964 (1000-1½)	1000-3	964 (1000-3)
C CIRCLING	1000-1¼ 964 (1000-1¼)	1000-1½ 964 (1000-1½)	1000-3	964 (1000-3)

MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

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HARLINGEN, TEXAS | AL-827 (FAA) | 21056

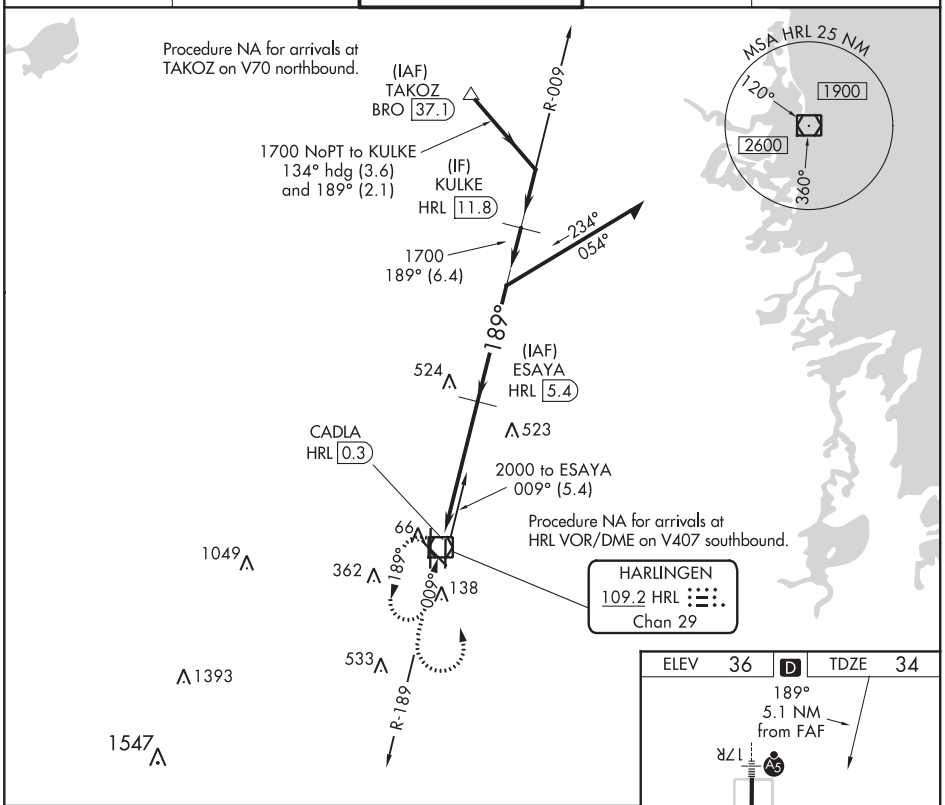
VOR RWY 17L
VALLEY INTL (HRL)

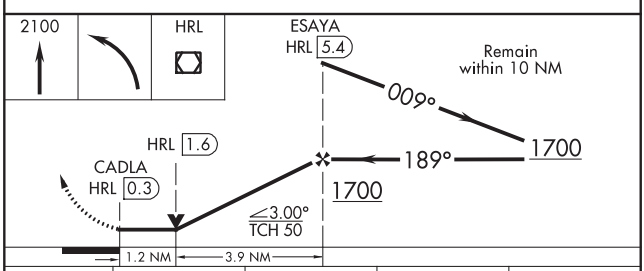
VOR/DME HRL 109.2 Chan 29	APP CRS 189°	Rwy ldg 5949 TDZE 34 Apt Elev 36

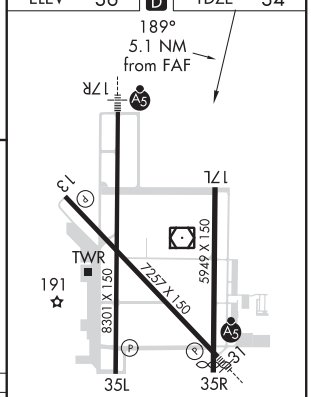
DME required.

MISSED APPROACH: Climb to 2100 then left turn direct HRL VOR/DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) 317.6	121.7	122.95







CATEGORY	A	B	C	D
S-17L	480-1 446 (500-1)		480-1⅜ 446 (500-1⅜)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

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VOR/DME HRL 109.2 Chan 29	APP CRS 325°	Rwy ldg 7257 TDZE 36 Apt Elev 36

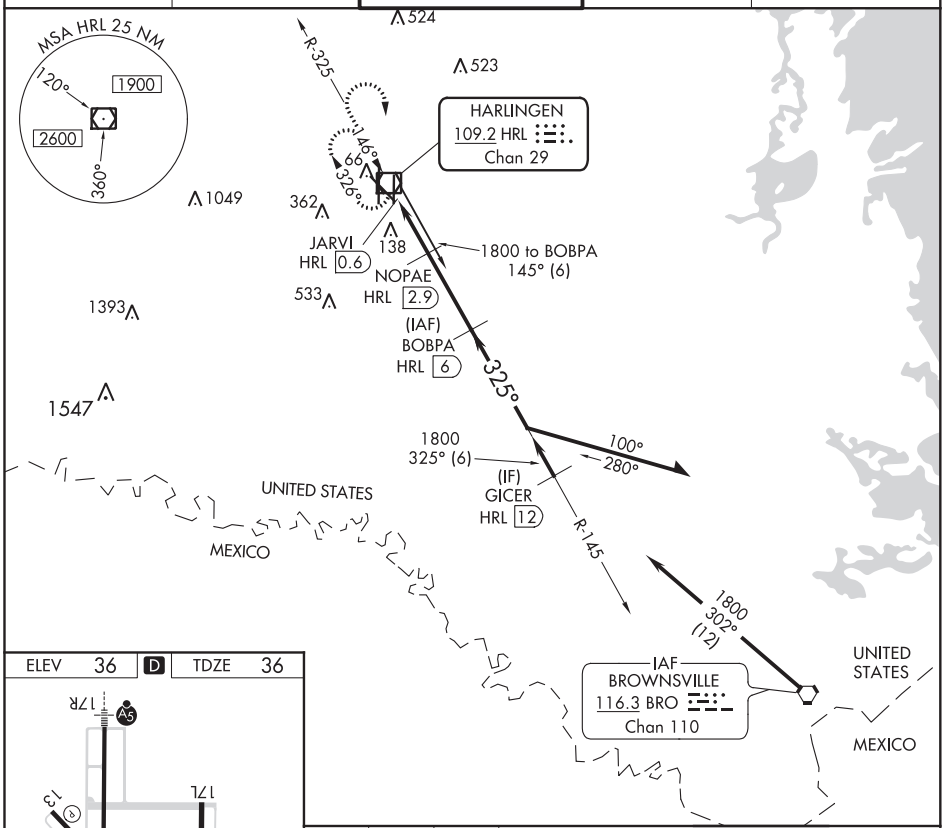
VOR Z RWY 31
VALLEY INTL (HRL)

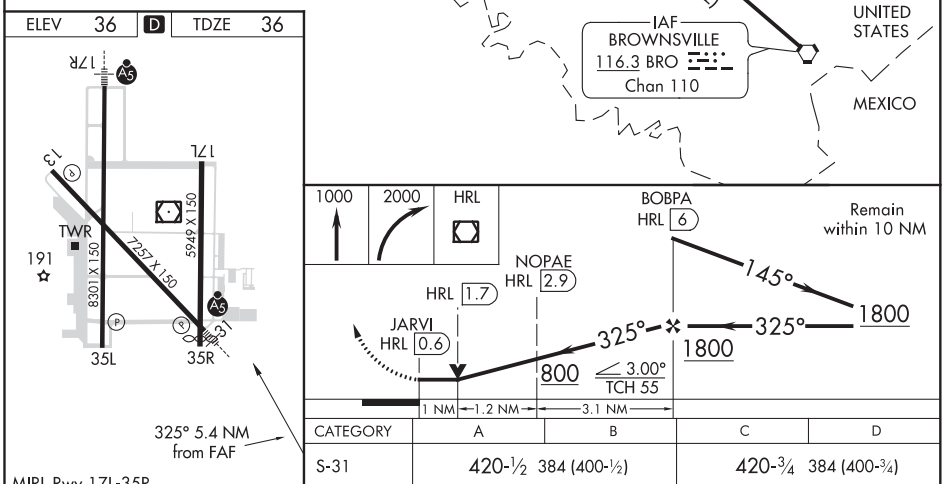
DME required.

MALSR

MISSED APPROACH: Climb to 1000 then climbing right turn to 2000 direct HRL VOR/DME and hold.

ATIS	VALLEY APP CON	HARLINGEN TOWER ★	GND CON	UNICOM
124.85	120.7 279.5	119.3 (CTAF) L 317.6	121.7	122.95





MIRL Rwy 17L-35R
REIL Rwys 13 and 17L
HIRL Rwys 13-31 and 17R-35L

CATEGORY	A	B	C	D
S-31	420-½ 384 (400-½)		420-¾ 384 (400-¾)	
C CIRCLING	500-1 464 (500-1)	560-1 524 (600-1)	680-1¾ 644 (700-1¾)	680-2 644 (700-2)

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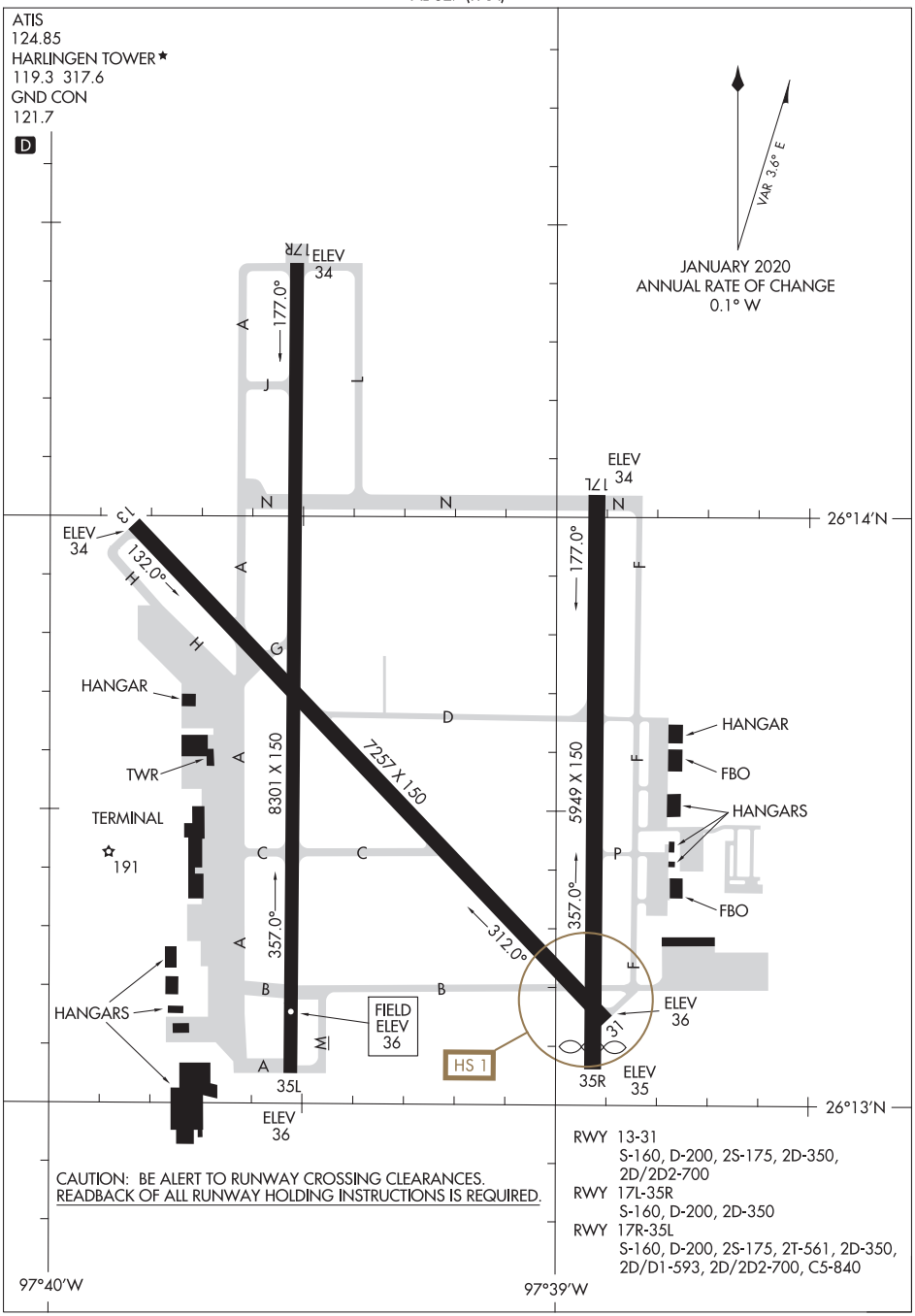
20086

AIRPORT DIAGRAM

AL-827 (FAA)

VALLEY INTL (HRL)
HARLINGEN, TEXAS



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AIRPORT DIAGRAM
20086
HARLINGEN, TEXAS
VALLEY INTL (HRL)

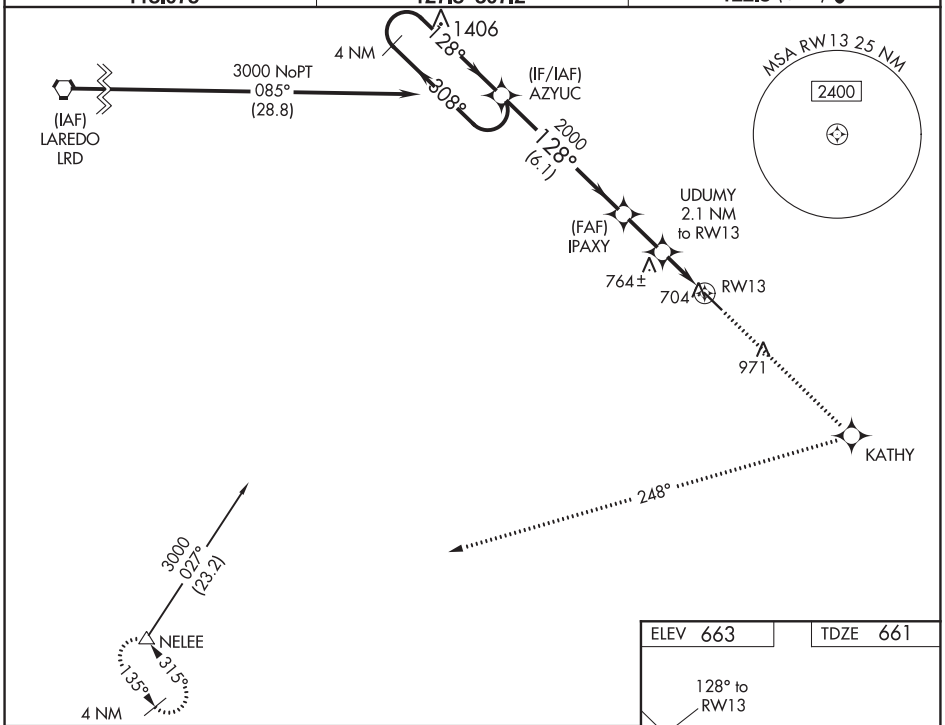
RNAV (GPS) RWY 13
JIM HOGG COUNTY (HBV)

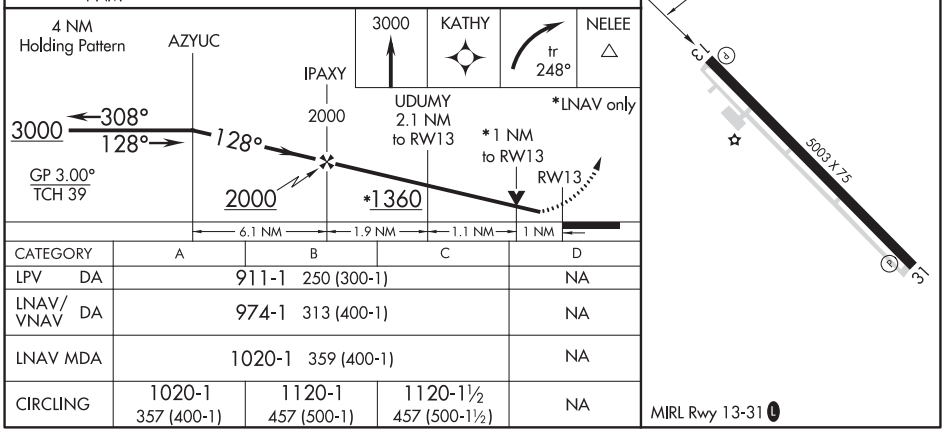
WAAS CH 45918 W13A	APP CRS 128°	Rwy ldg 5003 TDZE 661 Apt Elev 663

Baro-VNAV NA when using Laredo altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Laredo altimeter setting and increase all DA 115 feet and all MDA 120 feet; increase LPV all Cats, and LNAV Cat C visibility ¼ mile and LNAV/VNAV all Cats visibility ½ mile. VDP NA with Laredo altimeter setting.

MISSED APPROACH: Climb to 3000 direct KATHY and right turn on track 248° to NELEE and hold

AWOS-3	HOUSTON CENTER	UNICOM
118.075	127.8 307.2	122.8 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	911-1 250 (300-1)			NA
LNAV/VNAV DA	974-1 313 (400-1)			NA
LNAV MDA	1020-1 359 (400-1)			NA
CIRCLING	1020-1 357 (400-1)	1120-1 457 (500-1)	1120-1½ 457 (500-1½)	NA

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HONDO, TEXAS

AL-195 (FAA)

21056

RNAV (GPS) RWY 17L
SOUTH TEXAS RGNL AT HONDO (HDO)

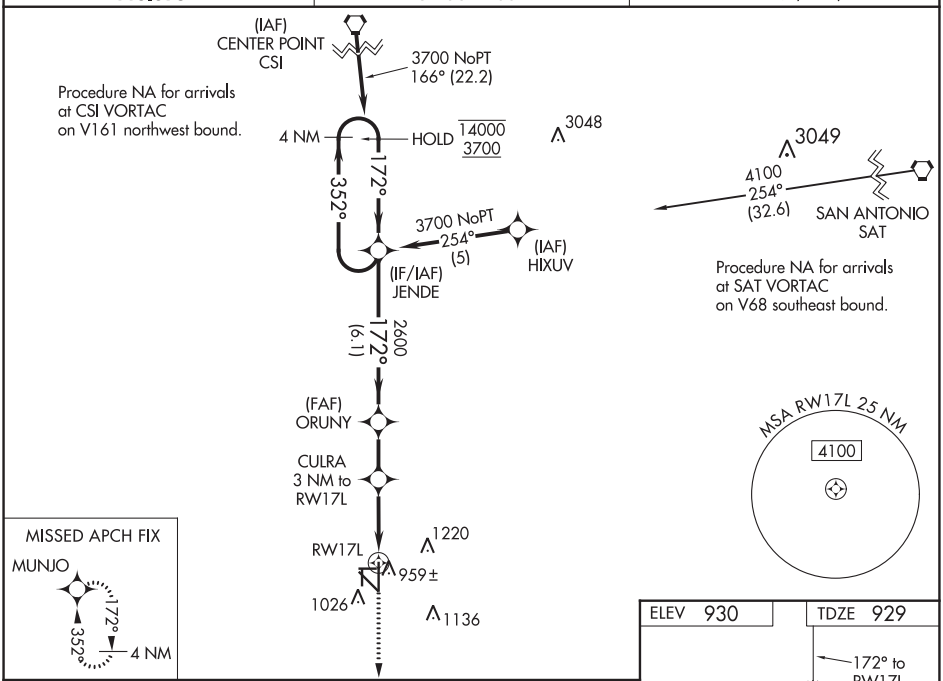
WAAS CH 69619 W17A	APP CRS 172°	Rwy ldg 6002 TDZE 929 Apt Elev 930

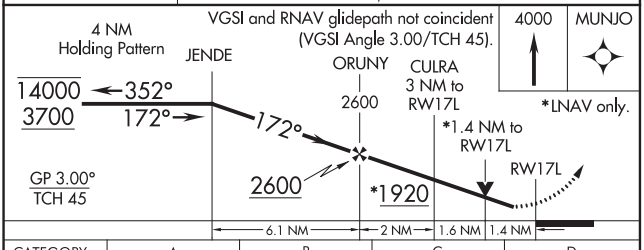
RNP APCH.

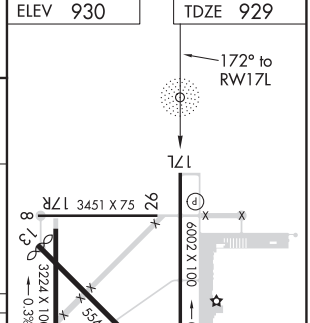
Baro-VNAV and VDP NA when using Castroville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 47°C. When local altimeter setting not received, use Castroville altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all Cats visibility ⅛ SM, LNAV and Circling Cats C/D visibility ¼ SM. Rwy 17L helicopter visibility reduction below ¾ SM NA. Circling to Rwys 8, 13, 17R, 26, 31 and 35L NA at night.

MISSED APPROACH: Climb to 4000 direct MUNJO and hold, continue climb-in-hold to 4000.

ASOS	HOUSTON CENTER	UNICOM
119.675	134.95 269.4	122.725 (CTAF)







MIRL Rwy 17L-35R

CATEGORY	A	B	C	D
LPV DA	1179-1 250 (300-1)			
LNAV/VNAV DA	1314-1¼ 385 (400-1¼)			
LNAV MDA	1420-1 491 (500-1)		1420-1⅜ 491 (500-1⅜)	1420-1½ 491 (500-1½)
CIRCLING	1420-1 490 (500-1)		1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)

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WAAS CH 48820 W35A	APP CRS 352°	Rwy ldg 6002 TDZE 917 Apt Elev 930

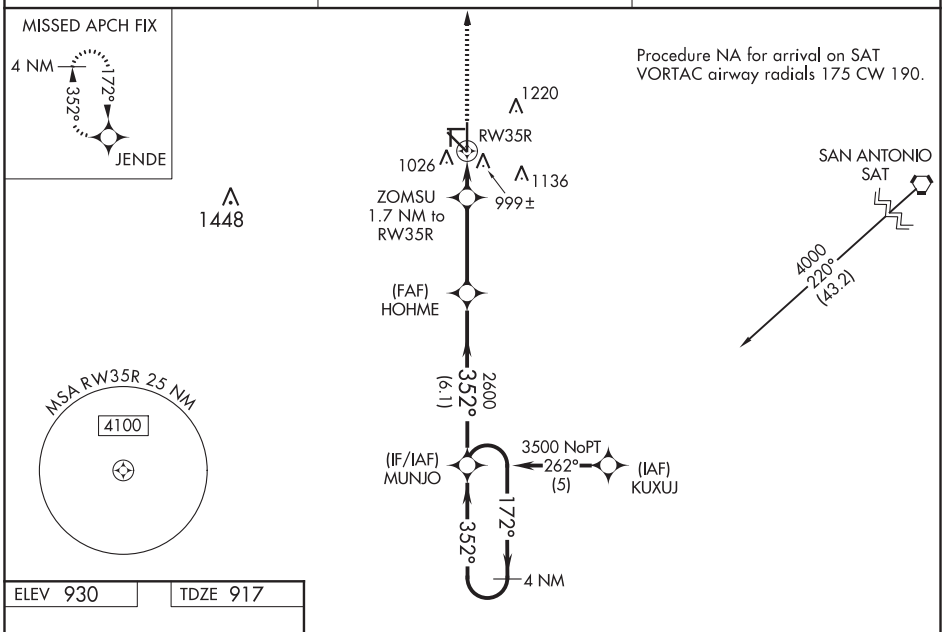
RNAV (GPS) RWY 35R
SOUTH TEXAS RGNL AT HONDO (HDO)

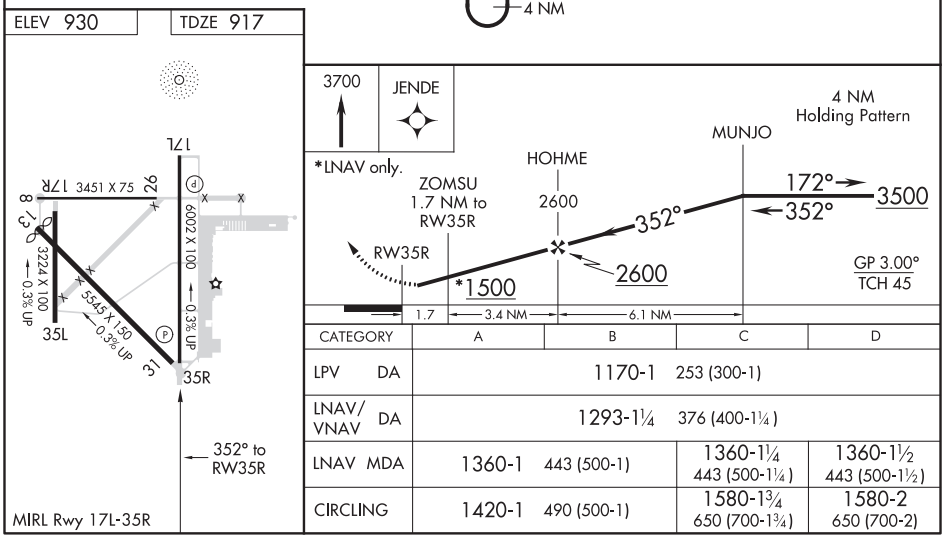
RNP APCH.

Baro-VNAV NA when using Castroville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). Visibility reduction by helicopters NA. When local altimeter setting not received, use Castroville altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all Cats, and LNAV and Circling Cats C and D visibility ¼ mile. Circling Rwy 8, 13, 17R, 26, 31, 35L NA at night.

MISSED APPROACH: Climb to 3700 direct JENDE and hold.

ASOS	HOUSTON CENTER	UNICOM
119.675	134.95 269.4	122.725 (CTAF)





CATEGORY	A	B	C	D
LPV DA	1170-1 253 (300-1)			
LNAV/VNAV DA	1293-1¼ 376 (400-1¼)			
LNAV MDA	1360-1 443 (500-1)		1360-1¼ 443 (500-1¼)	1360-1½ 443 (500-1½)
CIRCLING	1420-1 490 (500-1)		1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)

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HONDO, TEXAS AL-195 (FAA) 21056

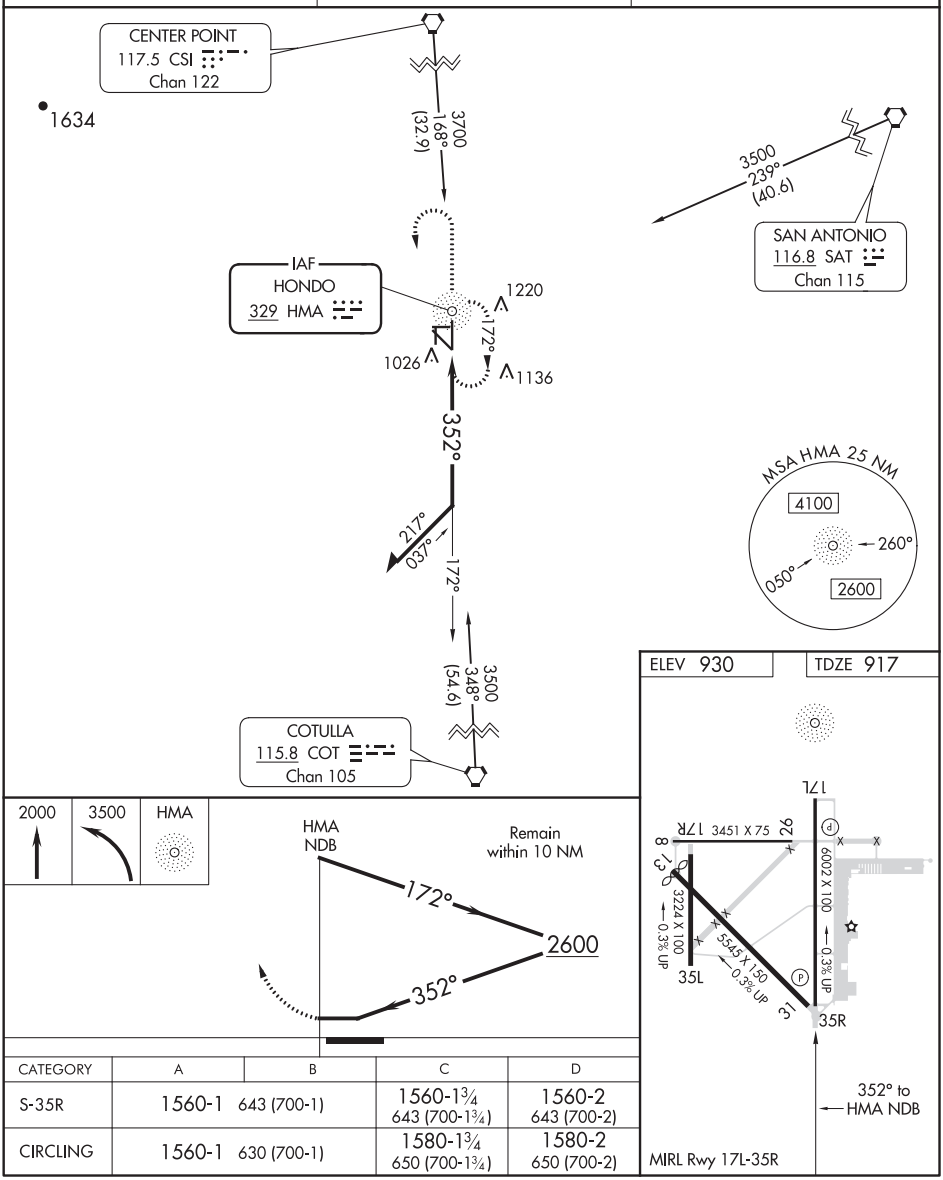
NDB HMA	APP CRS	Rwy ldg / TDZE / Apt Elev
329	352°	6002 / 917 / 930

NDB RWY 35R
SOUTH TEXAS RGNL AT HONDO (HDO)

Visibility reduction by helicopters NA. When local altimeter setting not received, use Castroville altimeter setting and increase all MDA 80 feet, increase all Cats C/D visibility ¼ mile. Circling Rwy 8, 13, 17R, 26, 31, 35L NA at night.

MISSED APPROACH: Climb to 2000 then climbing left turn to 3500 direct to HMA NDB and hold.

ASOS	HOUSTON CENTER	UNICOM
119.675	134.95 269.4	122.725 (CTAF)



CATEGORY	A	B	C	D
S-35R	1560-1 643 (700-1)		1560-1¾ 643 (700-1¾)	1560-2 643 (700-2)
CIRCLING	1560-1 630 (700-1)		1580-1¾ 650 (700-1¾)	1580-2 650 (700-2)

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FORT HOOD, TEXAS

COPTER RNAV (GPS) RWY 34

APCH CRS	Rwy ldg	3701
338°	TDZE	914
	Arpt Elev	923

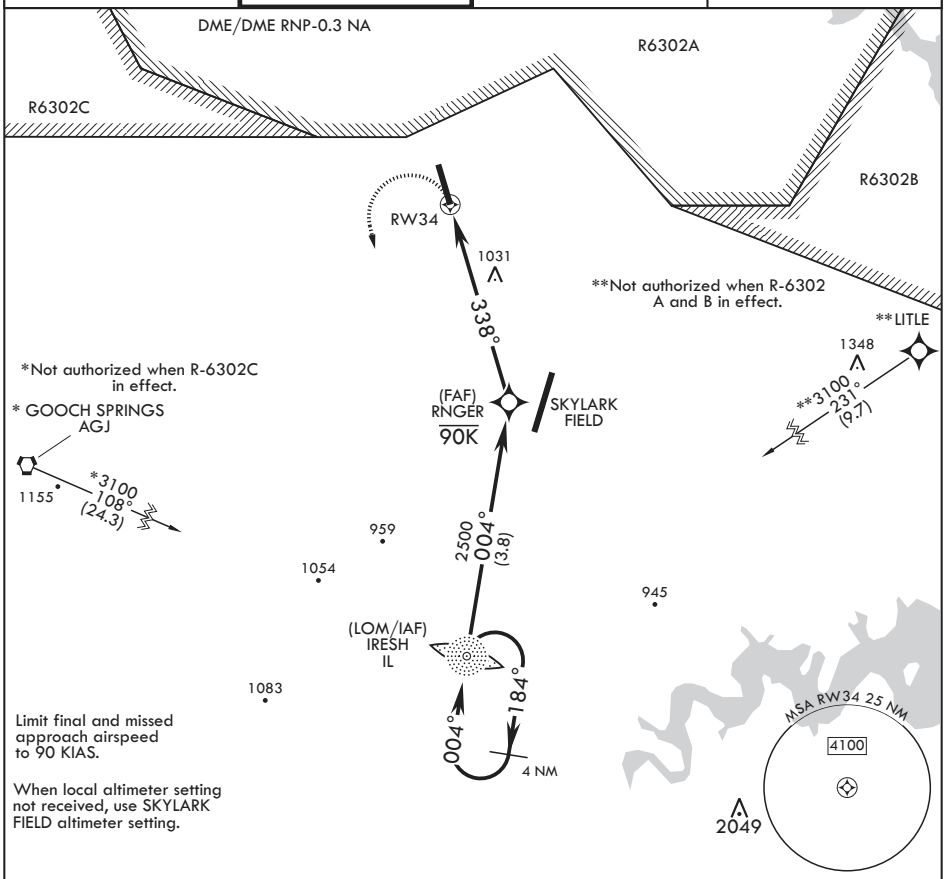
AL-5031 (USA)

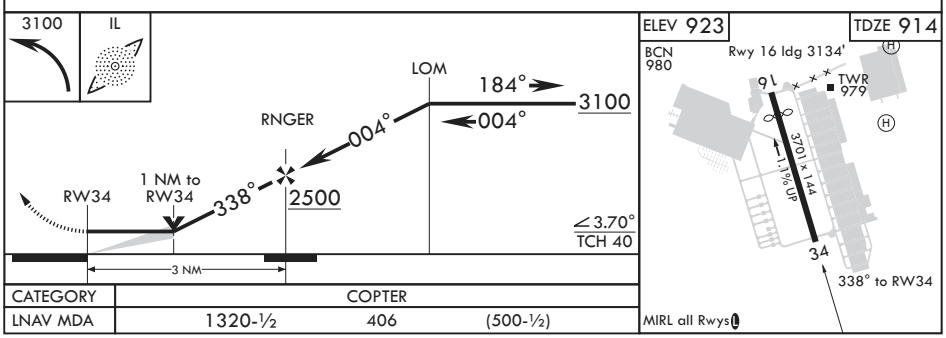
HOOD AHP (KHLR)

T
A NA

MISSED APPROACH: Climbing left turn to 3100 direct IRESH LOM and hold.

GRAY APP CON/DEP CON	TOWER★	GND CON	CLNC DEL
120.075 323.15	119.65 269.45	133.85 225.4	225.4





CATEGORY	COPTER		
LNAV MDA	1320-½	406	(500-½)

FORT HOOD, TEXAS

31°08'N - 97°43'W

HOOD AHP (KHLR)

Orig

COPTER RNAV (GPS) RWY 34

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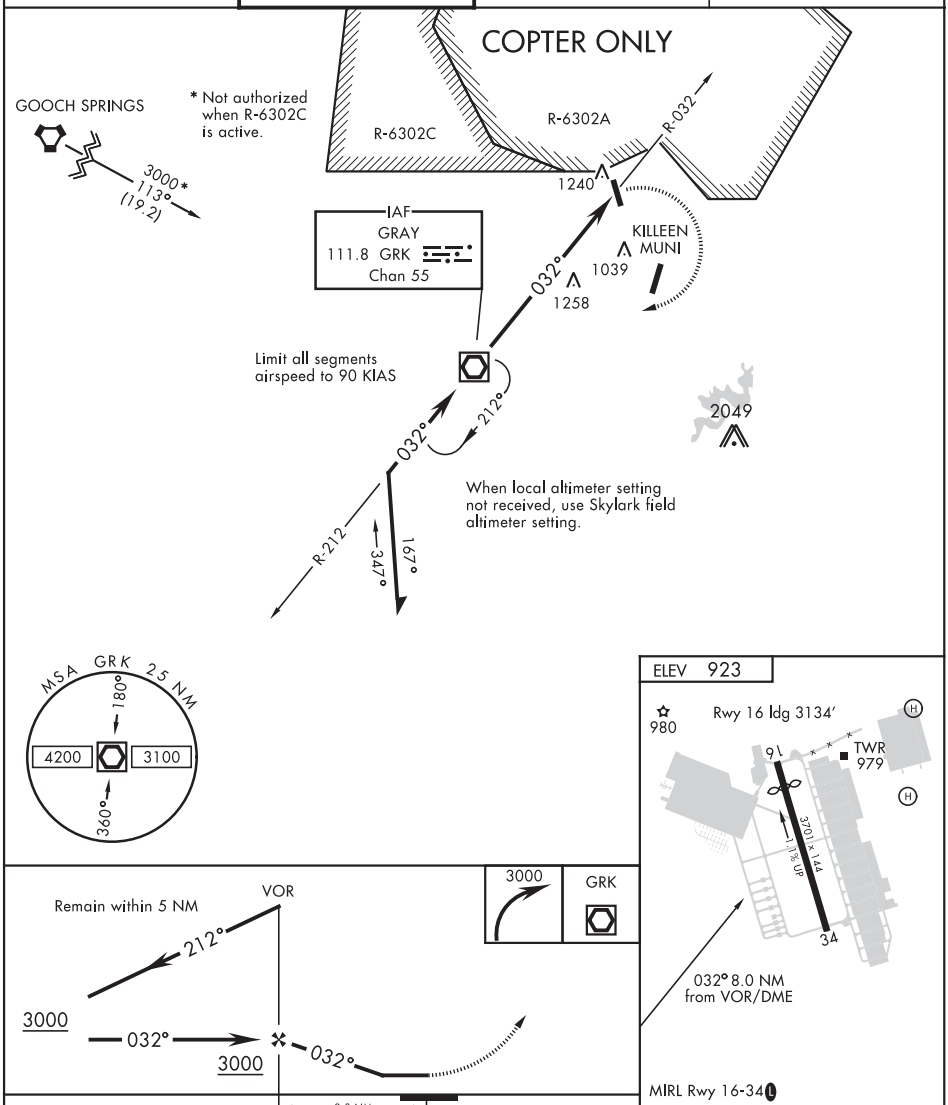
FORT HOOD (KILLEEN), TEXAS

COPTER VOR 032°

VOR/DME GRK 111.8 Chan 55	APCH CRS 032°	Rwy ldg N/A TDZE N/A Arpt Elev 923	AL-5031 [USA]	HOOD AHP (KHLR)

MISSED APPROACH: Climbing right turn to 3000 direct to GRK VOR/DME and hold.

GRAY APP CON	HOOD TOWER ★	GND CON	CLNC DEL
120.075 323.15	119.65 L 269.45	133.85 225.4	225.4



CATEGORY	COPTER
H-032°	1600-¾ 676 (700-¾)

FAF to MAP 8.0 NM					
Knots	45	60	75	90	105
Min:Sec	10:40	8:00	6:24	5:20	4:34

FORT HOOD (KILLEEN), TEXAS 31°09'N-97°43'W HOOD AHP (KHLR)

Amdt 3 20366

COPTER VOR 032°

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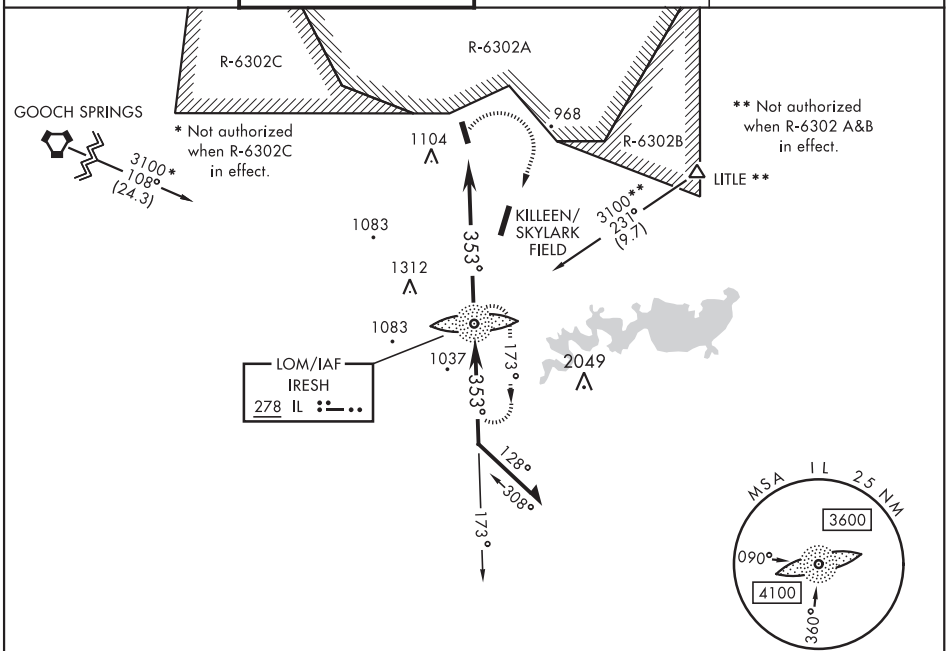
COPTER NDB RWY 34

LOM IL 278	APCH CRS 353°	Rwy ldg 3701 TDZE 914 Arpt Elev 923	AL-5031 [USA]	HOOD AHP (KHLR)

NA

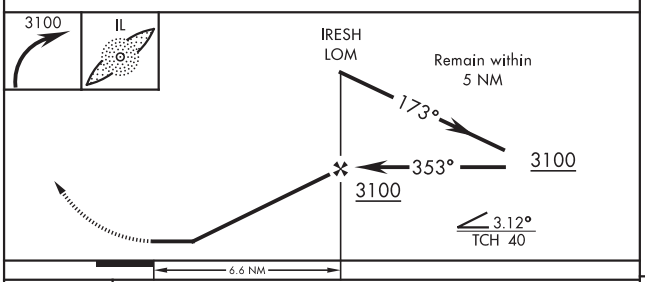
MISSED APPROACH: Climbing right turn to 3100 direct IL LOM and hold.

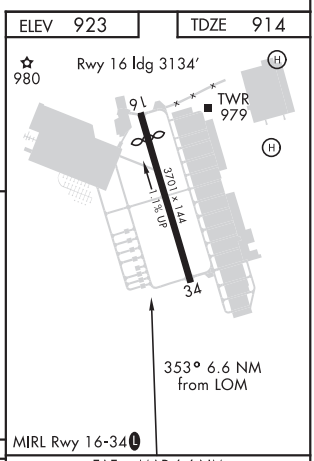
GRAY APP CON	HOOD TOWER ★	GND CON	CLNC DEL
120.075 323.15	119.65 269.45	133.85 225.4	225.4



Limit all segments airspeed to 90 KIAS.

When local altimeter setting not received, use SKYLARK FIELD altimeter setting.





CATEGORY	COPTER
S-34	1400-¾ 486 (500-¾)

FAF to MAP 6.6 NM					
Knots	45	60	75	90	105
Min:Sec	8:48	6:36	5:17	4:24	3:46

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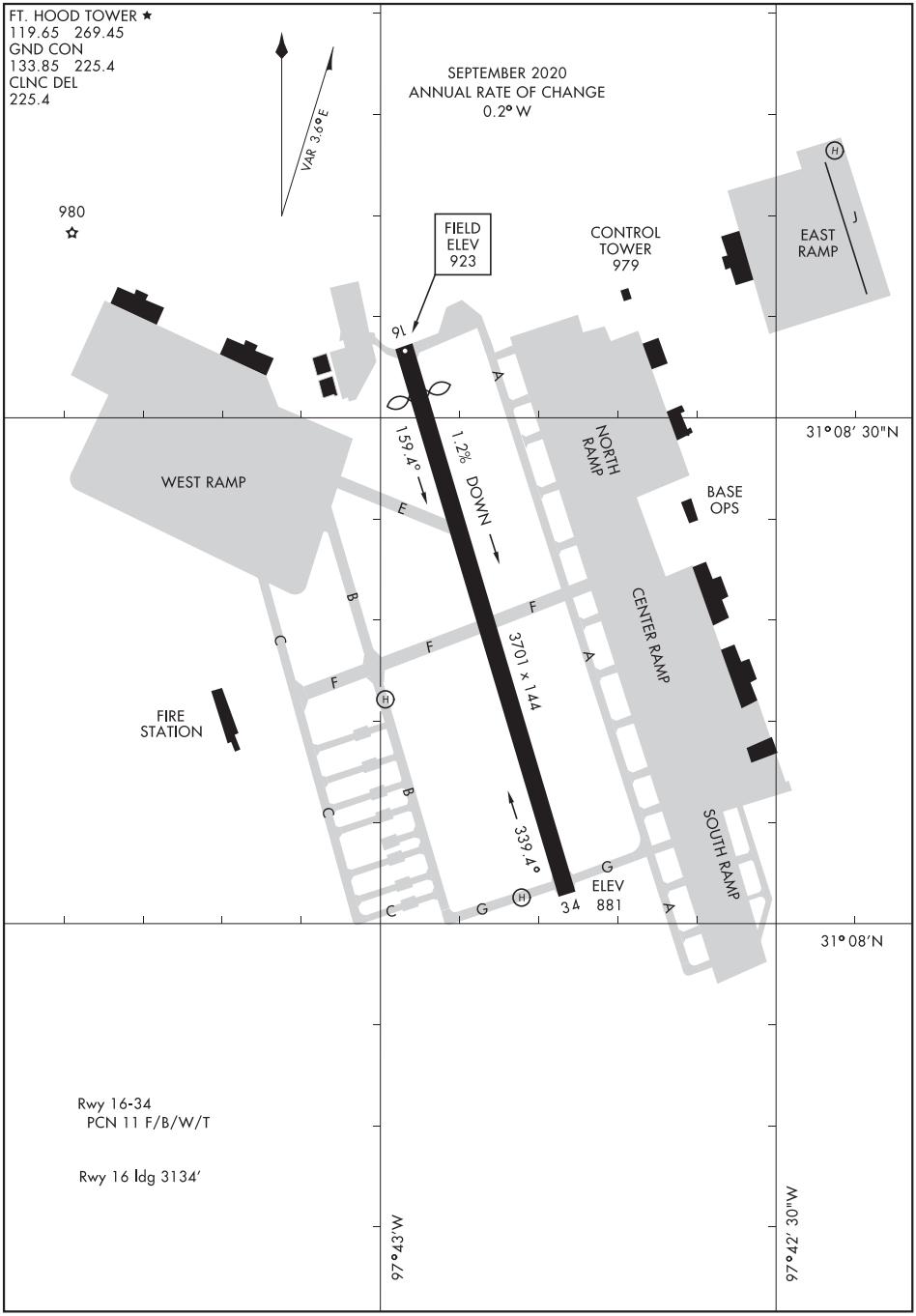
AIRPORT DIAGRAM

AFD-5031 [USA]

HOOD AHP (KHLR)

FORT HOOD (KILLEEN), TEXAS



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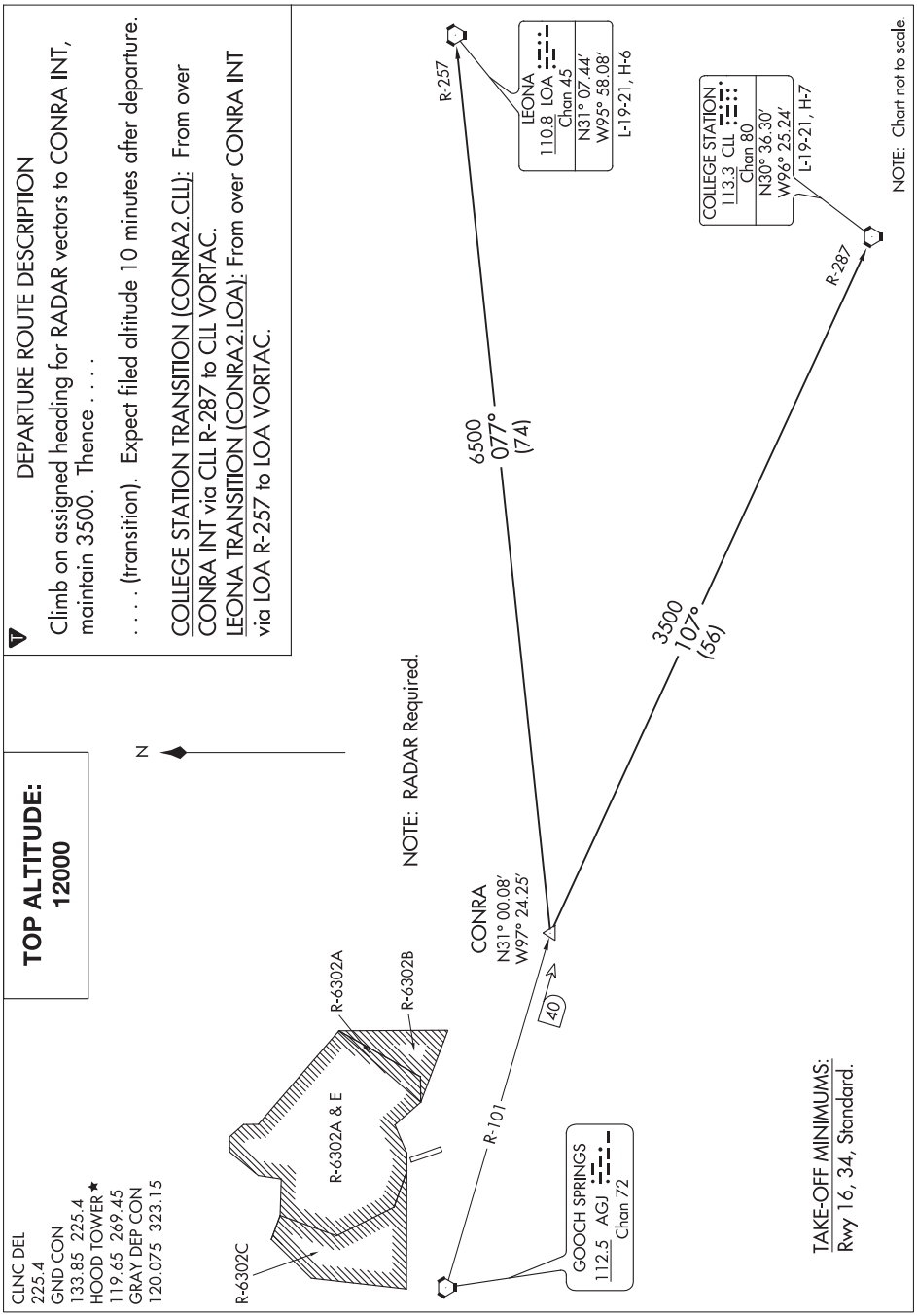
AIRPORT DIAGRAM

FORT HOOD (KILLEEN), TEXAS

HOOD AHP (KHLR)

CONRA TWO DEPARTURE

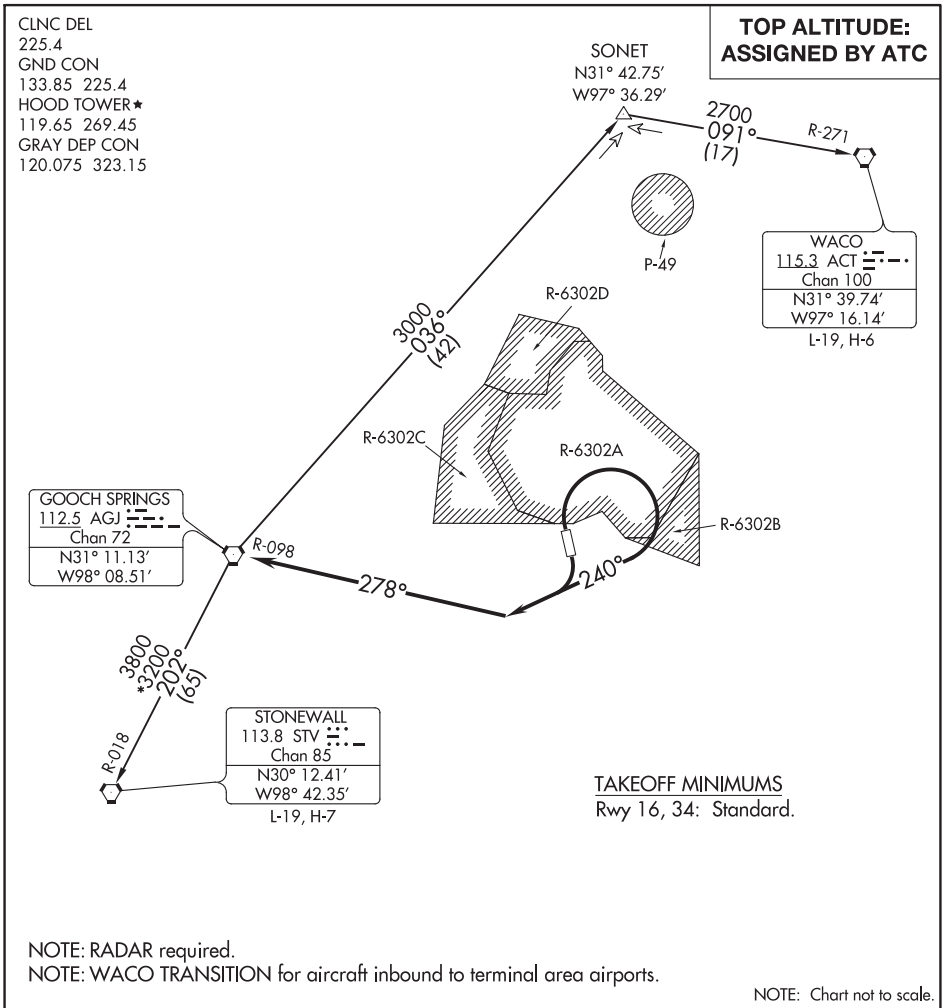


SC-3, 25 FEB 2021 to 22 APR 2021

(LAMPS7.AGJ) 20310 AL-5031 (FAA)

LAMPS SEVEN DEPARTURE

HOOD AHP (HLR)
FORT HOOD/KILLEEN, TEXAS



NOTE: RADAR required.
NOTE: WACO TRANSITION for aircraft inbound to terminal area airports.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16, 34: Climbing right turn heading 240° (to assigned altitude) to intercept and proceed on AGJ R-098. Thence . . . .

. . . . on (transition) or (assigned route).

STONEWALL TRANSITION (LAMPS7.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.
WACO TRANSITION (LAMPS7.ACT): From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

SC-3, 25 FEB 2021 to 22 APR 2021

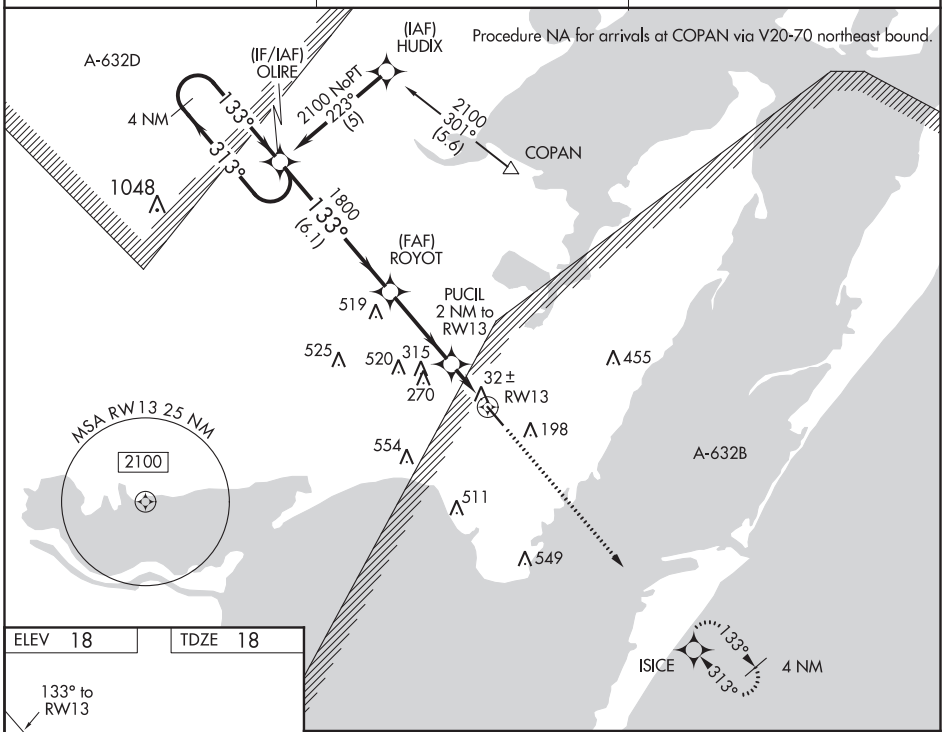
WAAS Ch 78301 W13A	APP CRS 133°	Rwy ldg 5000 TDZE 18 Apt Elev 18

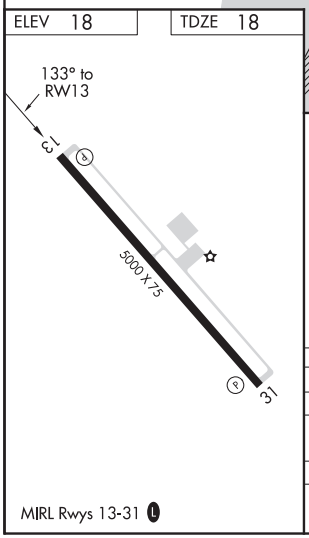
RNAV (GPS) RWY 13
MCCAMPBELL-PORTER (TFP)

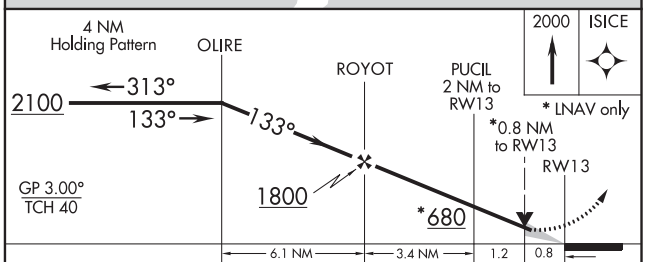
A W Baro-VNAV NA when using Mustang Beach altimeter setting. DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Mustang Beach altimeter setting and increase LPV DA to 291 feet; LNAV/VNAV DA to 309 feet; and all MDAs 40 feet. VDP NA when using Mustang Beach altimeter setting.

MISSED APPROACH: Climb to 2000 direct ISICE and hold.

AWOS-3	CORPUS APP CON	UNICOM
118.775	120.9 348.725	122.7 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	268-1 250 (300-1)			
LNAV/VNAV DA	286-1 268 (300-1)			
LNAV MDA	300-1 282 (300-1)			
CIRCLING	520-1 502 (600-1)		520-1½ 502 (600-1½)	580-2 562 (600-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

INGLESIDE, TEXAS | AL-10220 (FAA) | 19115

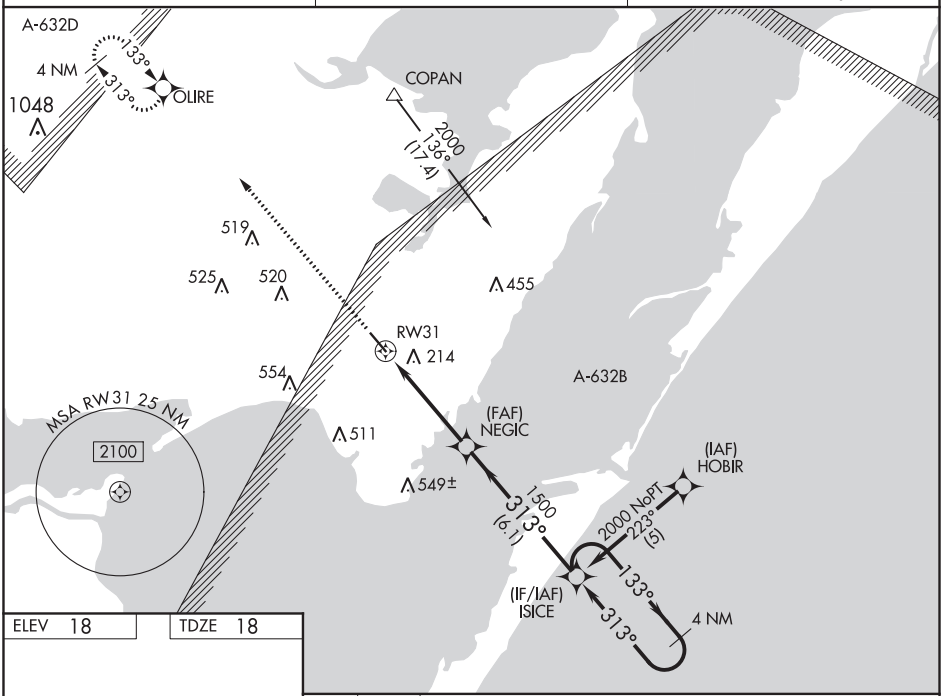
RNAV (GPS) RWY 31
MCCAMPBELL-PORTER (TFP)

WAAS Ch 82601 W31A	APP CRS 313°	Rwy ldg 5000 TDZE 18 Apt Elev 18

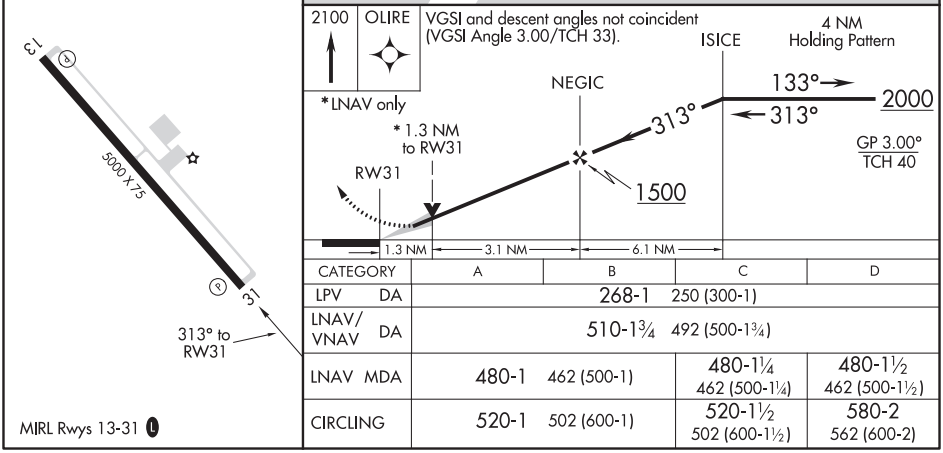
A W BARO-VNAV NA when using Mustang Beach altimeter setting. For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mustang Beach altimeter setting and increase LPV DA to 291 feet; LNAV/VNAV DA to 533 feet; and all MDAs 40 feet; increase LNAV Cat C visibility ¼ mile. VDP NA when using Mustang Beach altimeter setting. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2100 direct OLIRE and hold.

AWOS-3	CORPUS APP CON	UNICOM
118.775	120.9 348.725	122.7 (CTAF) L



ELEV 18 | TDZE 18



CATEGORY	A	B	C	D
LPV DA	268-1 250 (300-1)			
LNAV/VNAV DA	510-1¾ 492 (500-1¾)			
LNAV MDA	480-1 462 (500-1)		480-1¼ 462 (500-1¼)	480-1½ 462 (500-1½)
CIRCLING	520-1 502 (600-1)		520-1½ 502 (600-1½)	580-2 562 (600-2)

MIRL Rwys 13-31 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

APP CRS	Rwy ldg	5004
172°	TDZE	1751
	Apt Elev	1751

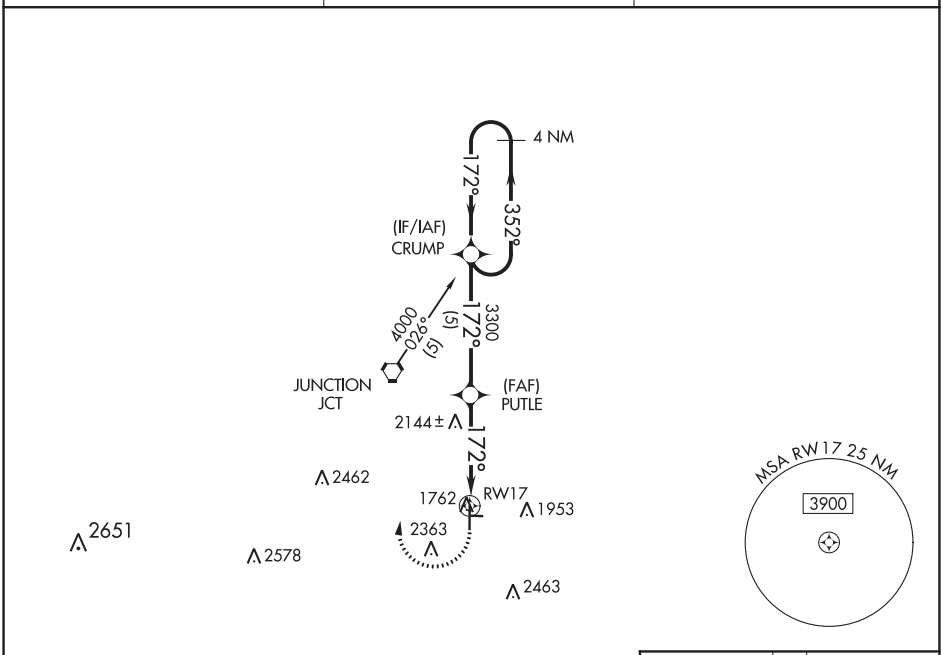
RNAV (GPS) RWY 17
KIMBLE COUNTY (JCT)

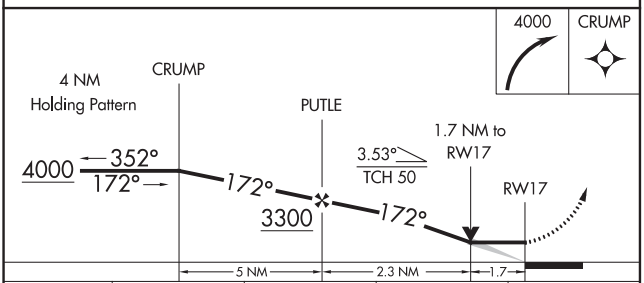
Circling NA to Rwy 8-26. GPS or RNP-0.3 REQUIRED. DME/DME RNP-0.3 NA.

NA

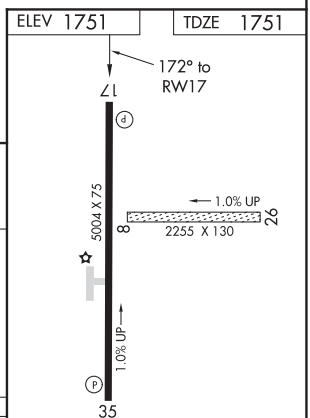
MISSED APPROACH: Climbing right turn to 4000 direct CRUMP WP and hold.

ASOS	HOUSTON CENTER	UNICOM
119.275	125.75 346.4	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	2420-1 669 (700-1)		2420-1¾ 669 (700-1¾)	NA
CIRCLING	2420-1 669 (700-1)		2740-3 989 (1000-3)	NA



MIRL Rwy 17-35 L

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

JUNCTION, TEXAS

AL-922 (FAA)

20198

VOR-A

KIMBLE COUNTY (JCT)

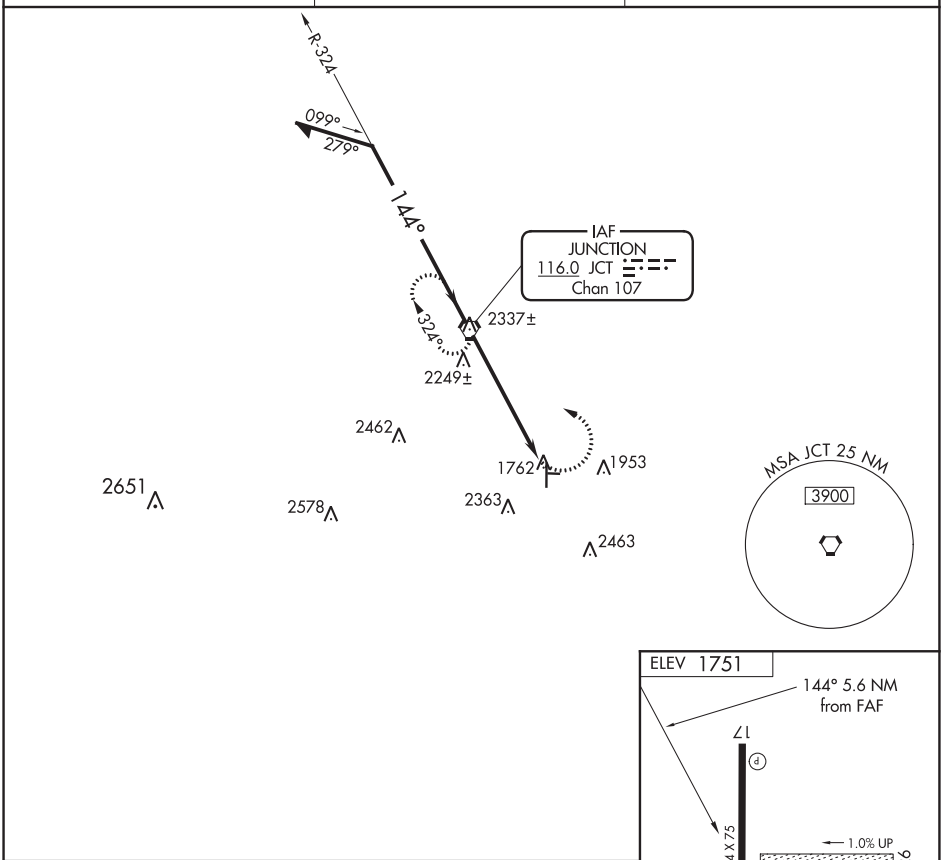
VORTAC JCT	APP CRS	Rwy ldg	N/A
116.0	144°	TDZE	N/A
Chan 107		Apt Elev	1751

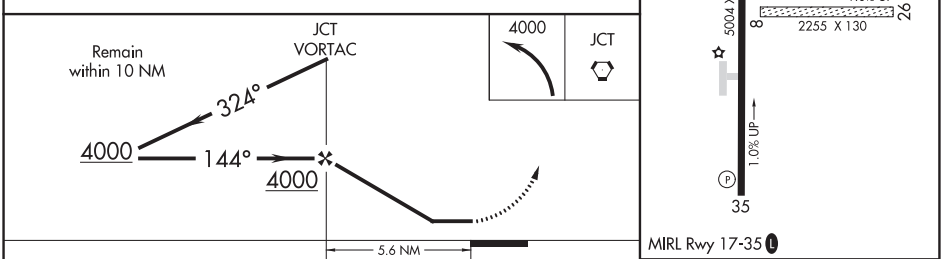
NA

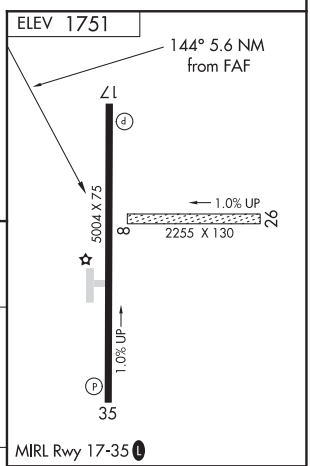
Circling NA to Rwy 8-26.

MISSED APPROACH: Climbing left turn to 4000 direct to JCT VORTAC and hold.

ASOS	HOUSTON CENTER	UNICOM
119.275	125.75 346.4	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	2560-1 809(900-1)	2560-1¼ 809 (900-1¼)	2740-3 989 (1000-3)	NA

FAF to MAP 5.6 NM					
Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

JUNCTION, TEXAS
Amdt 12 03OCT02

30°31′ N-99°46′ W

KIMBLE COUNTY (JCT)
VOR-A

SAN ANTONIO, TEXAS

ILS or LOC/DME Y RWY 16

LOC I-SKF 110.1	APCH CRS 158°	Rwy ldg 11,550 TDZE 690 Arpt Elev 690

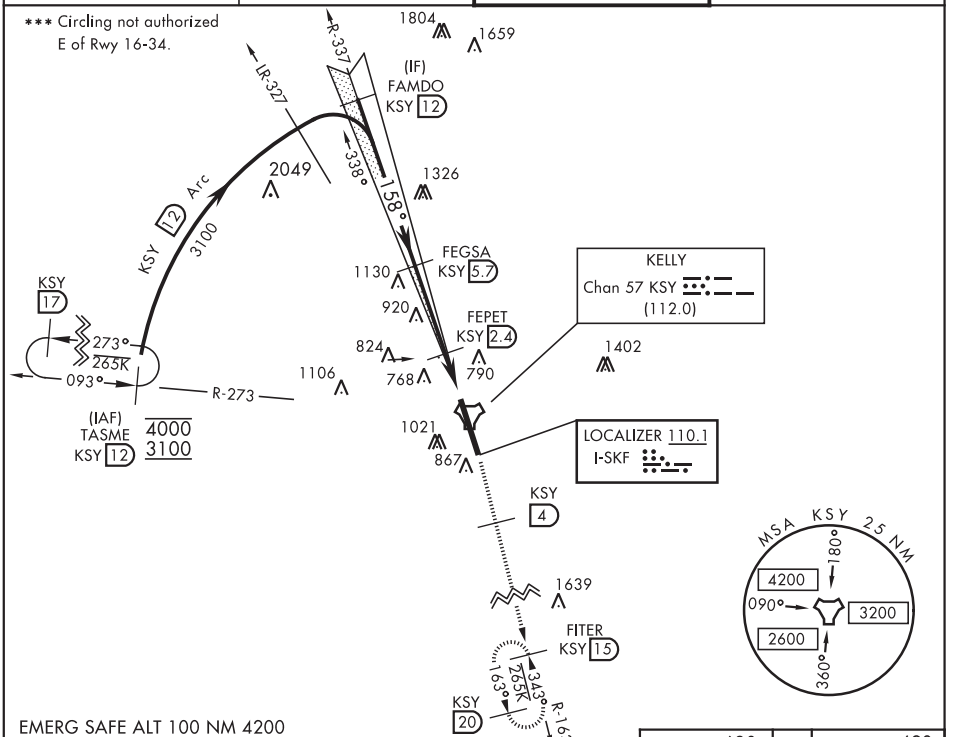
AL-371 [USAF] KELLY FLD (KSKF)

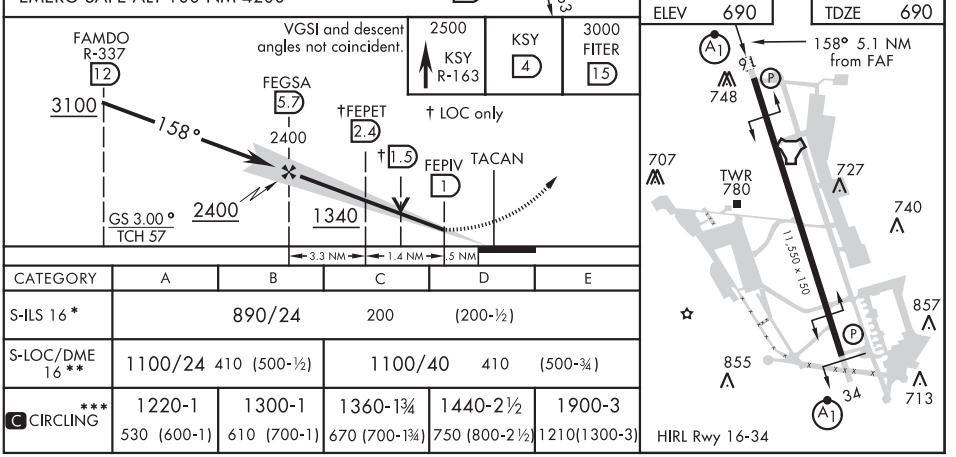
*When ALS inop, increase RVR to 40 and vis to ¾ mile.
**When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.

ALSF-1 A1

MISSED APPROACH: Climb to 2500 via KSY R-163 until 4 DME, then continue climb to 3000 to FITER/15 DME and hold. Non-TACAN equipped aircraft expect alternate missed approach instructions.

ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4





CATEGORY	A	B	C	D	E
S-ILS 16*	890/24 200 (200-½)				
S-LOC/DME 16**	1100/24 410 (500-½)		1100/40 410 (500-¾)		
C CIRCLING***	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210(1300-3)

SAN ANTONIO, TEXAS 29° 23′N-98° 35′W KELLY FLD (KSKF)

Amdt 1 13AUG20

ILS or LOC/DME Y RWY 16

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANTONIO, TEXAS

20226

ILS or LOC/DME Y RWY 34

LOC I-OSQ	APCH CRS	Rwy ldg 11,550 TDZE 660 Arpt Elev 690
110.7	338°	

AL-371 [USAF]

KELLY FLD (KSKF)

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase RVR to 55 and vis to 1 mile.
*** Circling not authorized E of Rwy 16-34.

ALSF-1

† MISSED APPROACH: Climb to 2500 via KSY TACAN R-331 until 9 DME, cross 9 DME at 2500, then continue climb to 3000 to IDEEL/12 DME. Expect ATC instuctions.

ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4

† Non-TACAN equipped aircraft expect alternate missed approach instructions.

2049
R-331
IDEEL KSY 12
KSY 9
1106
LOCALIZER 110.7 I-OSQ
1021
867
751
KELLY Chan 57 KSY (112.0)
ICCAP KSY 7.3
1639
338°
158°
1098
1608
(IAF/IF) CEPRO KSY 15
339°
265K
159°
R-159
KSY 20
EMERG SAFE ALT 100 NM 4200

MSA KSY 25 NM
180°
4200
090°
3200
2600
360°

ELEV 690 TDZE 660

2500 KSY R-331
KSY R-331 9
3000 IDEEL KSY 12
ICCAP 7.3
CEPRO 15
159°
2700
338°
339°
TACAN
2600
JETKA 1.9
VGSI and descent angles not coincident.
2600
GS 3.00°
TCH 60
.5 NM
5.4 NM

707
TWR 780
727
11,550 x 150
857
855
34
713
338° 5.8 NM from FAF
HIRL Rwy 16-34

CATEGORY	A	B	C	D	E
S-ILS 34*	860/24		200	(200-½)	
S-LOC/DME 34**	1040/24	380 (400-½)	1040/35	380	(400-⅝)
C CIRCLING***	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210(1300-3)

SAN ANTONIO, TEXAS 29°23′N-98°35′W KELLY FLD (KSKF)

Amdt 1 13AUG20

ILS or LOC/DME Y RWY 34

SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANTONIO, TEXAS

RNAV (GPS) RWY 16

APCH CRS	Rwy ldg	11,550
158°	TDZE	690
	Arpt Elev	690

AL-371 (USAF)

KELLY FIELD (KSKF)

* When ALS inop, increase all CAT vis to 1 3/4 miles.
** When ALS inop, increase CAT AB RVR to 55, and vis to 1 mile; CAT CDE vis to 1 5/8 miles.
*** Circling not authorized E of Rwy 16-34.

ALSF-1

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct FITER and hold.

ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4

DME/DME RNP -0.3 NA

For uncompensated BARO-VNAV systems, LNAV/VNAV NA below -16°C (3°F).

1995
REUBE
3100 141° (6.9)
1953
(IAF) SODEE 3100
1696
2042
1804
KICED
4100 098° (9.6)
3100 097° (4.5)
(IAF) WURON 4100
3000 (5)
158°
3000 (4.5)
ODUYU 3100
(IAF/IF) FAMDO
2400 158° (6.4)
2049
(FAF) ZILEN
908
1106
RW16
MISSED APPROACH FITER
265K
163°
343°
5 NM
MSA RW16 25 NM
4200
EMERG SAFE ALT 100 NM 4200

VGSI and descent angles not coincident.

1500 | 3000 | FITER

FAMDO
3000
158°
ZILEN
2400
†LNAV only
†1.5 NM to RW16
RW16
GP 3.05°
TCH 57
5.1 NM

ELEV 690 | TDZE 690

158° to RW16

11,550 x 150
0.3% DOWN
707
727
TWR 780
BCN
855
857
713
34
HIRL all Rwys

CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	1080/35		390	(400-⅜)	
LNAV MDA**	1260/24 570 (600-½)		1260-1¼ 570 (600-1¼)		
C CIRCLING***	1260-1 570 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210 (1300-3)

SAN ANTONIO, TEXAS

Amdt 1 10OCT19

29°23'N - 98°35'W

KELLY FIELD (KSKF)

RNAV (GPS) RWY 16

SC-3, 25 FEB 2021 to 22 APR 2021

19283

SAN ANTONIO, TEXAS

RNAV (GPS) RWY 34

APCH CRS 338°	Rwy ldg 11,550 TDZE 660 Arpt Elev 690

AL-371 (USAF)

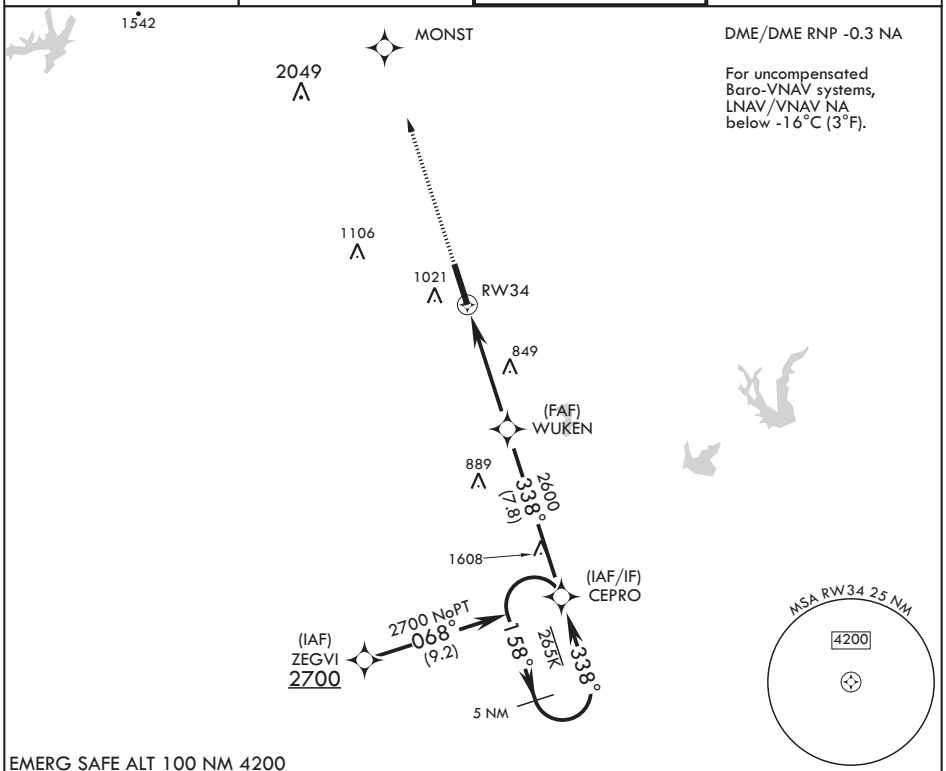
KELLY FIELD (KSKF)

T * When ALS inop, increase CAT ABCDE vis to 1 1/2 miles
** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1 1/4 miles.
*** Circling NA E of Rwy 16-34.

ALSF-1 A1

MISSED APPROACH: Climb to 3000 direct MONST. Expect ATC instructions.

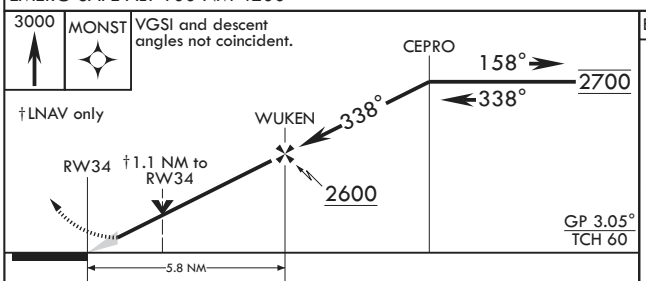
ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4

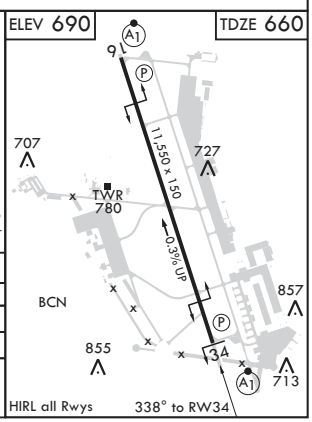


DME/DME RNP -0.3 NA

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (3°F).

EMERG SAFE ALT 100 NM 4200





CATEGORY	A	B	C	D	E
LNAV/VNAV DA*	1100/40		440	(500-¾)	
LNAV MDA**	1100/24	440 (500-½)	1100/40	440	(500-¾)
C CIRCLING***	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210 (1300-3)

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SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANTONIO, TEXAS

TACAN Y RWY 16

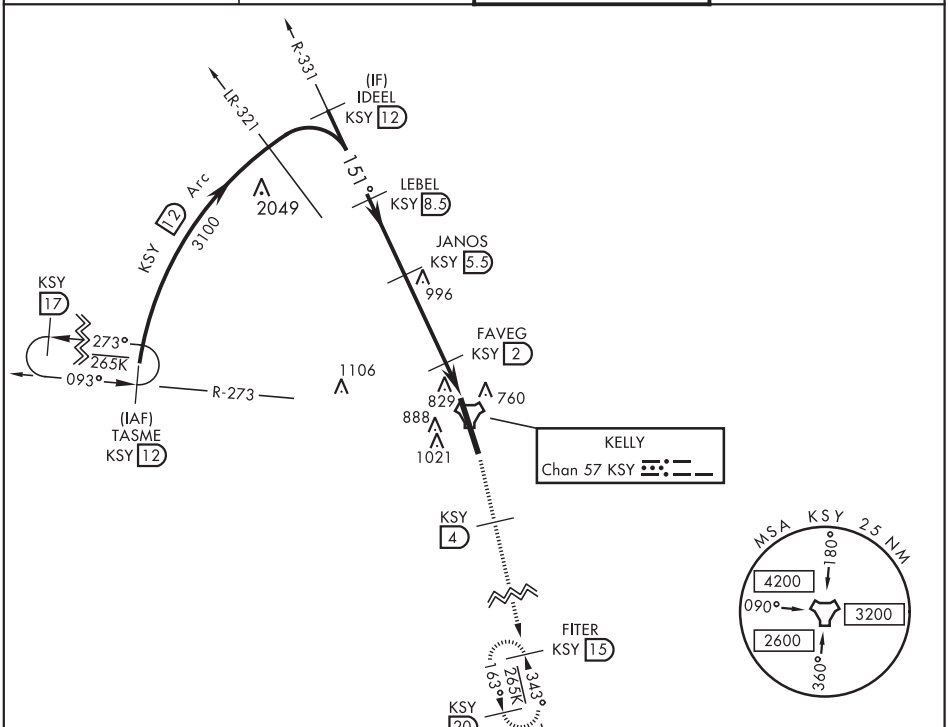
TACAN KSY Chan 57	APCH CRS 151°	Rwy ldg 11,550 TDZE 690 Arpt Elev 690	AL-371 [USAF]	KELLY FLD (KSKF)

T * When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.
** Circling not authorized E of Rwy 16-34.

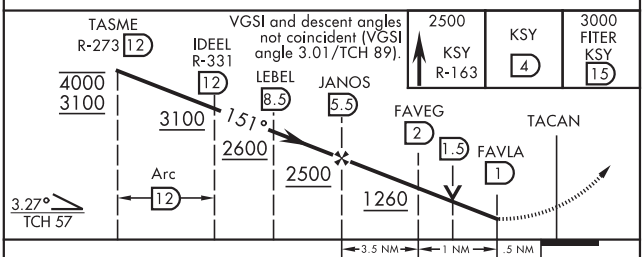
ALSF-1

MISSED APPROACH: Climb on 2500 via KSY R-163 until 4 DME, then climb to 3000 to FITER/ 15 DME and hold.

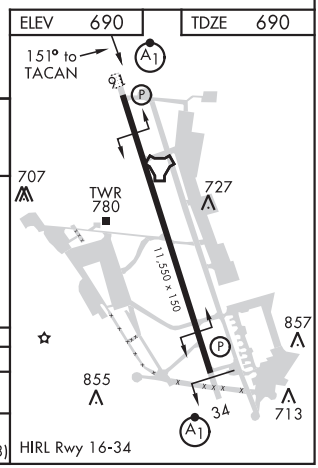
ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4



EMERG SAFE ALT 100 NM 4200



CATEGORY	A	B	C	D	E
S-16 *	1100/24 410 (500-½)		1100/40 410 (500-¾)		
C CIRCLING **	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210(1300-3)



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

20226

SAN ANTONIO, TEXAS

TACAN Y RWY 34

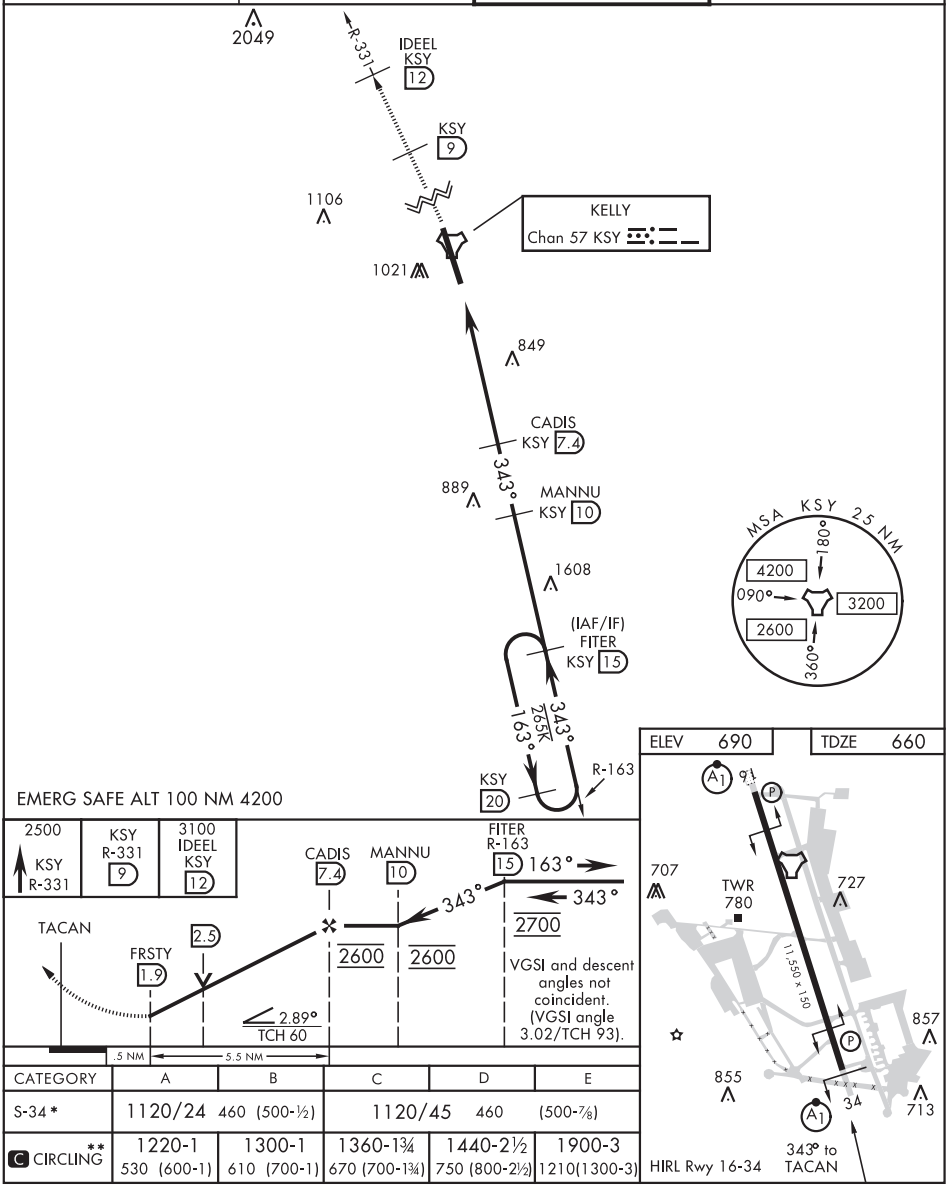
TACAN KSY Chan 57	APCH CRS 343°	Rwy ldg 11,550 TDZE 660 Arpt Elev 690	AL-371 [USAF]	KELLY FLD (KSKF)

* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.
** Circling not authorized E of Rwy 16-34.

ALSF-1

MISSED APPROACH: Climb to 2500 via KSY TACAN R-331 until 9 DME, cross 9 DME at 2500, then continue climb to 3100 to IDEEL/12 DME. Expect ATC instructions.

ATIS	SAN ANTONIO APP CON	KELLY TOWER	GND CON
120.45 273.5	118.05 353.5	124.3 322.35	121.8 289.4



CATEGORY	A	B	C	D	E
S-34 *	1120/24 460 (500-½)		1120/45 460 (500-⅞)		
C CIRCLING **	1220-1 530 (600-1)	1300-1 610 (700-1)	1360-1¾ 670 (700-1¾)	1440-2½ 750 (800-2½)	1900-3 1210(1300-3)

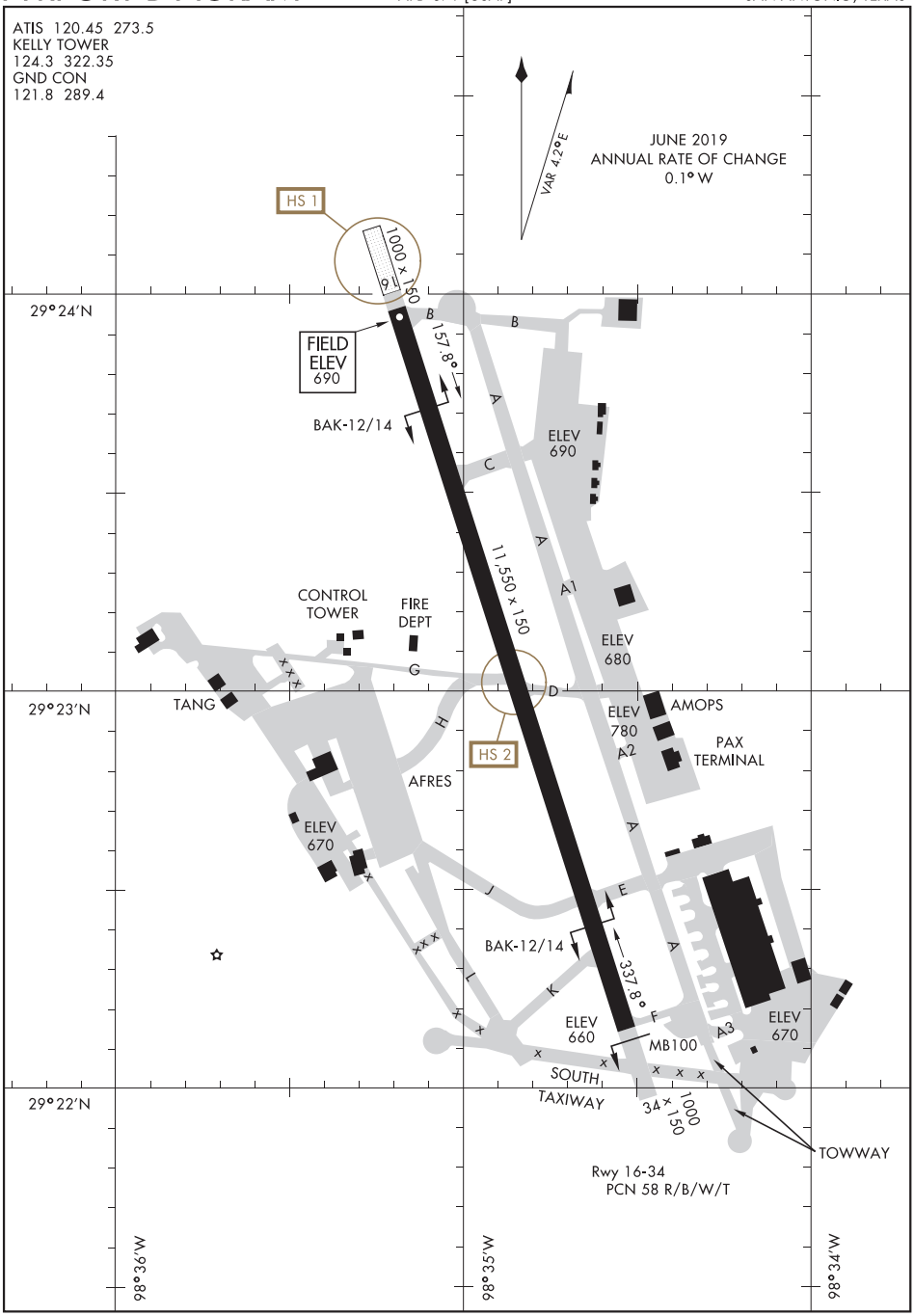
SAN ANTONIO, TEXAS 29° 23′N-98° 35′W KELLY FLD (KSKF)

Amdt 1 13AUG20

TACAN Y RWY 34

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021


ATIS 120.45 273.5
KELLY TOWER
124.3 322.35
GND CON
121.8 289.4
VAR 4.2°E
JUNE 2019
ANNUAL RATE OF CHANGE
0.1° W
HS 1
1,000 x 150
FIELD ELEV 690
157.8°
BAK-12/14
ELEV 690
11,550 x 150
CONTROL TOWER
FIRE DEPT
ELEV 680
TANG
HS 2
ELEV 780
AMOPS
PAX TERMINAL
AFRES
ELEV 670
BAK-12/14
337.8°
ELEV 660
MB100
ELEV 670
SOUTH TAXIWAY
34 x 1,000 x 150
TOWWAY
Rwy 16-34
PCN 58 R/B/W/T
29°24'N
29°23'N
29°22'N
98°36'W
98°35'W
98°34'W

KENEDY, TEXAS | AL-5975 (FAA) | 20198

RNAV (GPS) RWY 16
KENEDY RGNL (2R9)

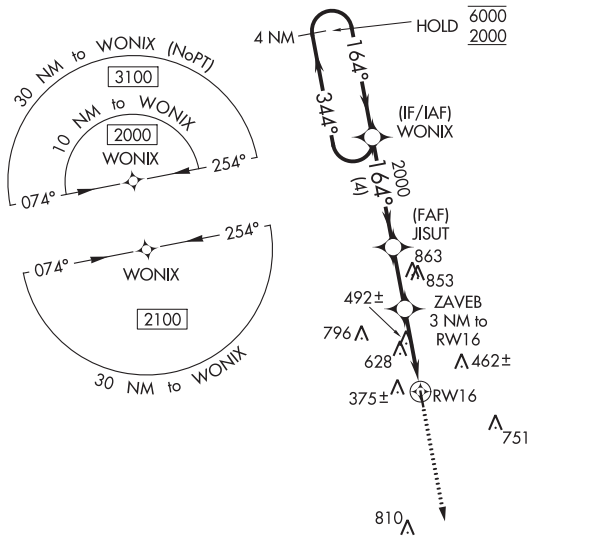
WAAS CH 87125 W16A	APP CRS 164°	Rwy ldg 3218 TDZE 289 Apt Elev 289

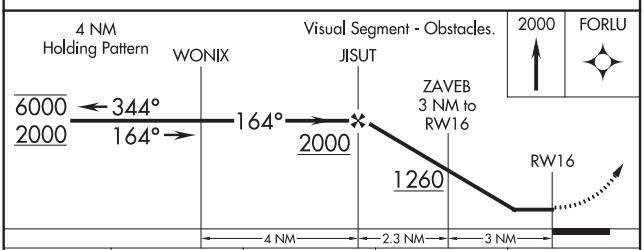
RNP APCH.

Procedure NA at night. When local altimeter setting not received, use Pleasanton altimeter setting. Rwy 16 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000 direct FORLU and hold.

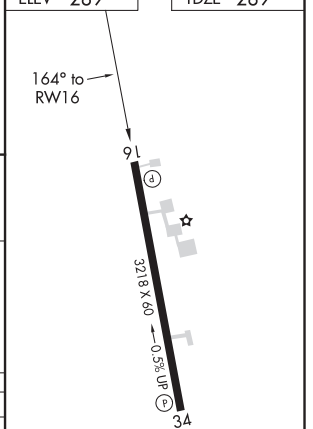
AWOS 3-PT	HOUSTON CENTER	UNICOM
118.45	134.6 322.5	123.0 (CTAF) L





CATEGORY	A	B	C	D
LP MDA	860-1 571 (600-1)		NA	
LNAV MDA	1040-1 751 (800-1)	1040-1¼ 751 (800-1¼)	NA	

ELEV 289 | TDZE 289



REIL Rwy 16
MIRL Rwy 16-34 L

SC-3, 25 FEB 2021 to 22 APR 2021

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WAAS CH 93925 W34A	APP CRS 344°	Rwy ldg 3218 TDZE 288 Apt Elev 289

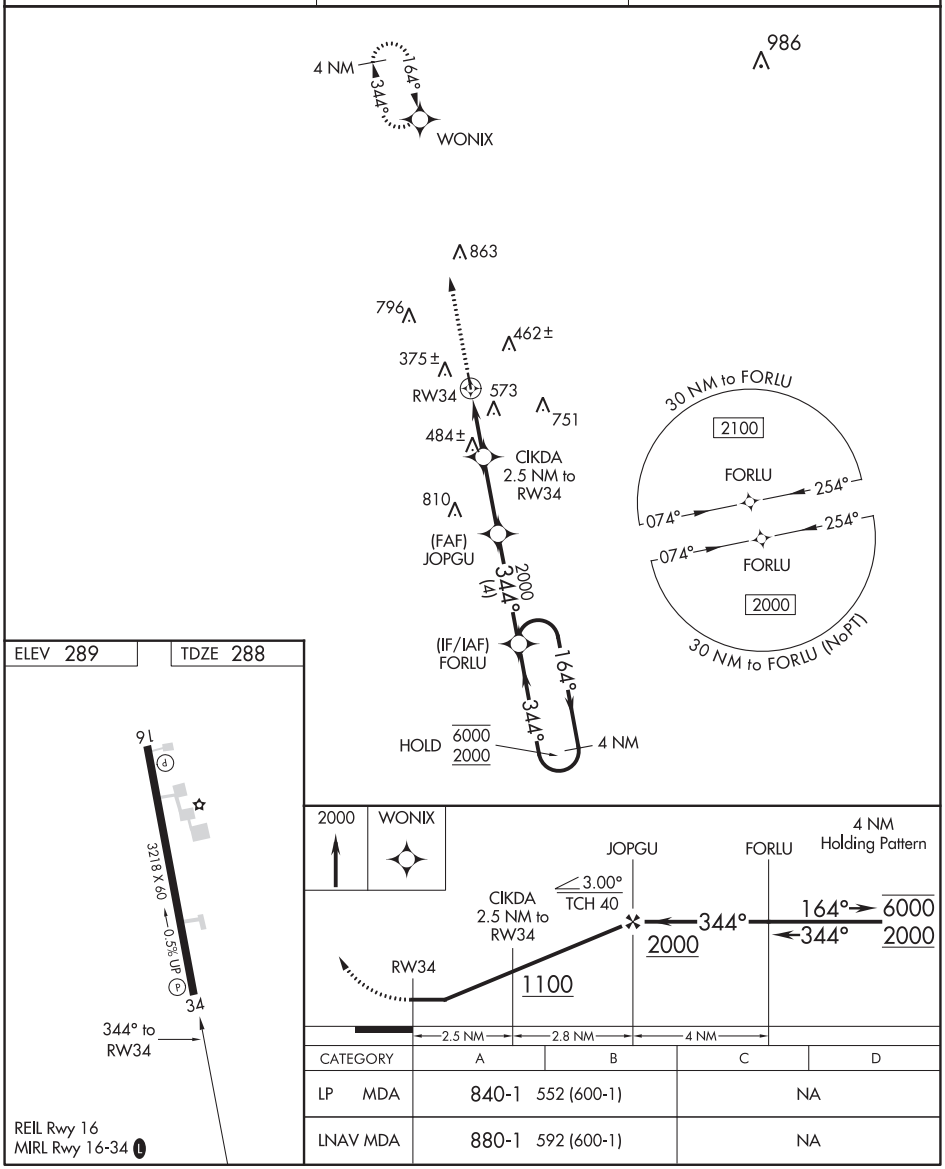
RNAV (GPS) RWY 34
KENEDY RGNL (2R9)

RNP APCH.

Procedure NA at night. When local altimeter setting not received, use Pleasanton altimeter setting. Rwy 34 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 2000 direct WONIX and hold.

AWOS 3-PT	HOUSTON CENTER	UNICOM
118.45	134.6 322.5	123.0 (CTAF) L



CATEGORY	A	B	C	D
LP MDA	840-1 552 (600-1)		NA	
LNAV MDA	880-1 592 (600-1)		NA	

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

KERRVILLE, TEXAS

AL-5690 (FAA)

20366

RNAV (GPS) RWY 12

KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

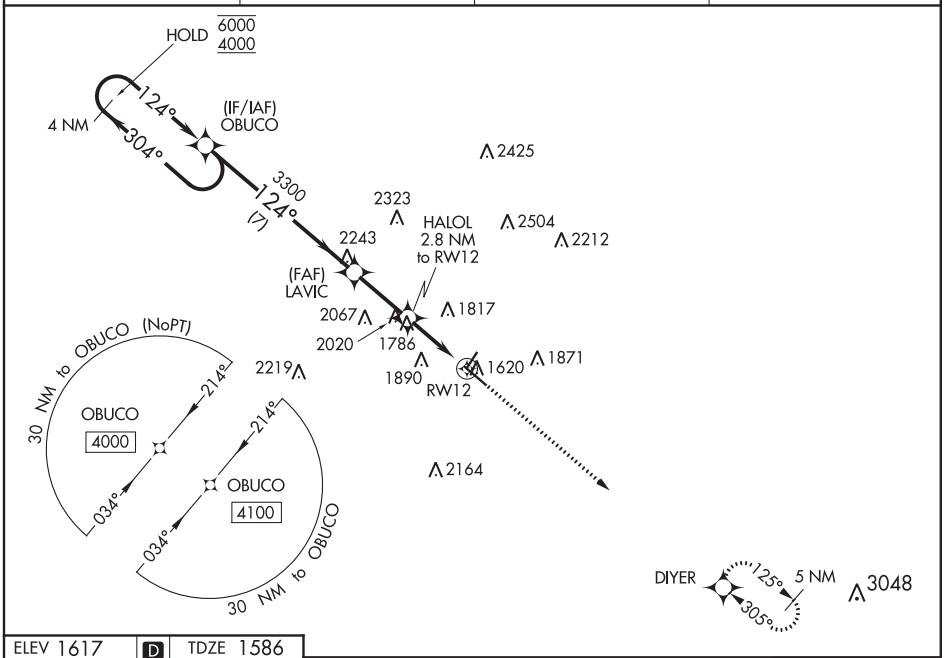
WAAS CH 45628 W12A	APP CRS 124°	Rwy ldg 5313 TDZE 1586 Apt Elev 1617

RNP APCH.

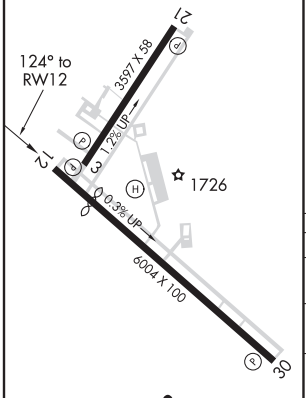
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C or above 54°C.

MISSED APPROACH: Climb to 4100 direct DIYER and hold.

AWOS-3	HOUSTON CENTER	CLNC DEL	UNICOM
118.125	134.95 269.4	134.95	122.7 (CTAF) L

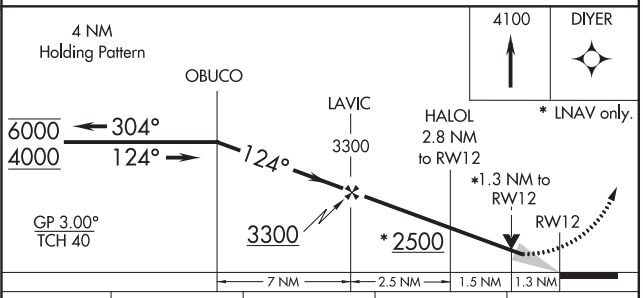


ELEV 1617 D TDZE 1586



REIL Rwys 12 and 30 L

MIRL Rwy 3-21 and 12-30 L



CATEGORY	A	B	C	D
LPV DA	1836-1 250 (300-1)			
LNAV/VNAV DA	1936-1⅛ 350 (400-1⅛)			
LNAV MDA	2040-1 454 (500-1)		2040-1⅜ 454 (500-1⅜)	
C CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	2540-3 923 (1000-3)

KERRVILLE, TEXAS
Amdt 1B 30JAN20

29°59′ N-99°05′ W

KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

RNAV (GPS) RWY 12

SC-3, 25 FEB 2021 to 22 APR 2021

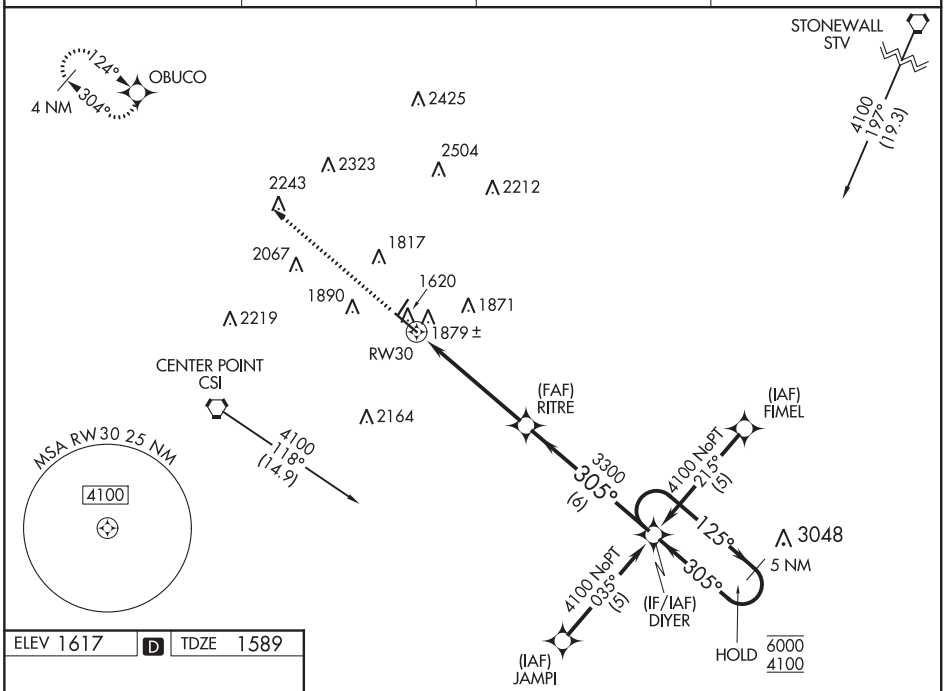
WAAS CH 77527 W30A	APP CRS 305°	Rwy ldg 5300 TDZE 1589 Apt Elev 1617

RNAV (GPS) RWY 30
KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

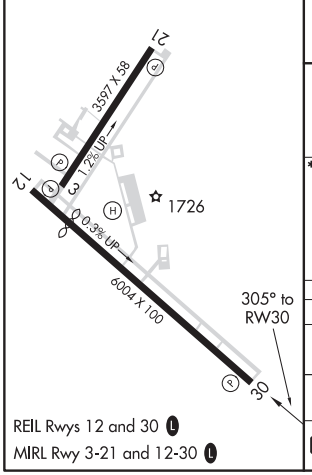
RNP APCH.

MISSED APPROACH: Climb to 4000 direct OBUCO and hold.

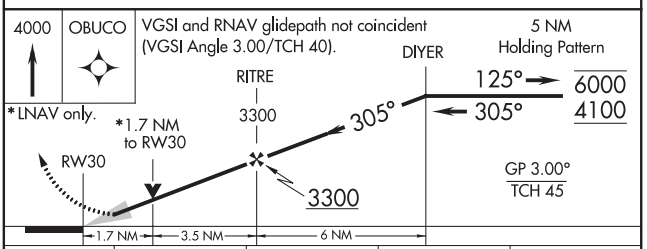
AWOS-3	HOUSTON CENTER	CLNC DEL	UNICOM
118.125	134.95 269.4	134.95	122.7 (CTAF) L



ELEV 1617 D TDZE 1589



REIL Rwys 12 and 30 L
MIRL Rwy 3-21 and 12-30 L



CATEGORY	A	B	C	D
LPV DA	1860-1 271 (300-1)			NA
LNAV MDA	2140-1 551 (600-1)		2140-1⅝ 551 (600-1⅝)	NA
C CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

SC-3, 25 FEB 2021 to 22 APR 2021
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KERRVILLE, TEXAS

AL-5690 (FAA)

20366

LOC RWY 30

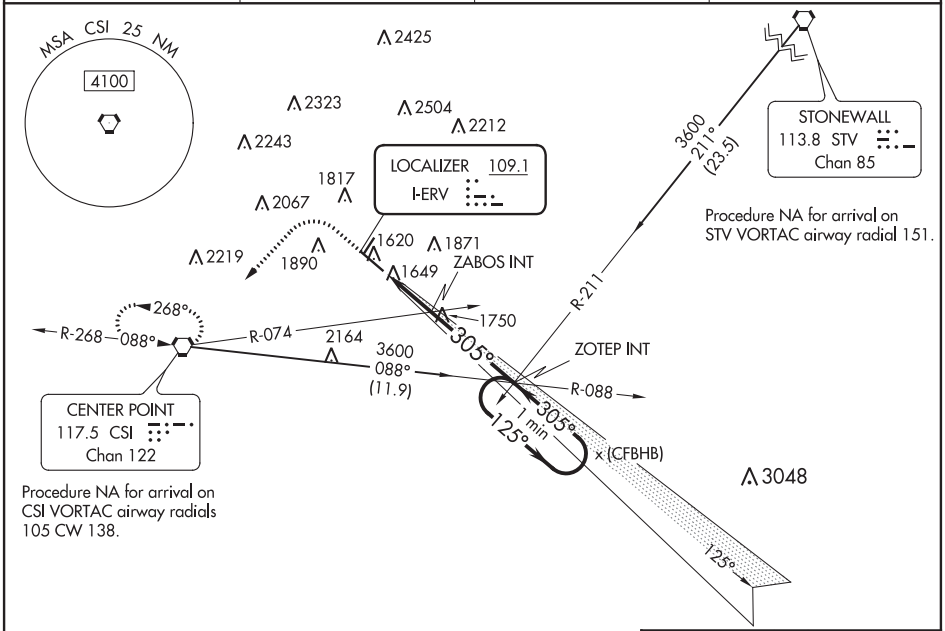
KERRVILLE MUNI/LOUIS SCHREINER FIELD (ERV)

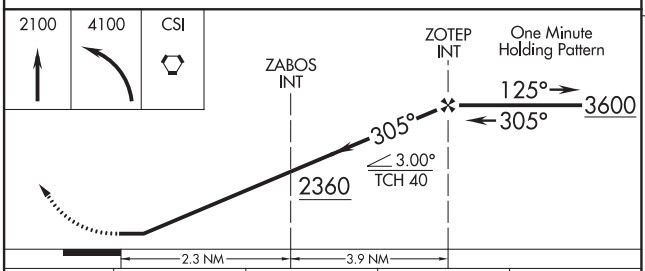
LOC I-ERV	APP CRS	Rwy ldg	5300
109.1	305°	TDZE	1589
		Apt Elev	1617

NA

MISSED APPROACH: Climb to 2100 then climbing left turn to 4100 direct CSI VORTAC and hold, continue climb-in-hold to 4100.

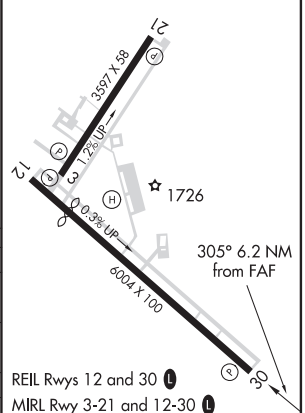
AWOS-3	HOUSTON CENTER	CLNC DEL	UNICOM
118.125	134.95 269.4	134.95	122.7 (CTAF) L





CATEGORY	A	B	C	D
S-30	2360-1 771 (800-1)	2360-1¼ 771 (800-1¼)	2360-2½ 771 (800-2½)	
C CIRCLING	2360-1 743 (800-1)	2360-1¼ 743 (800-1¼)	2380-2½ 763 (800-2½)	2540-3 923 (1000-3)
ZABOS FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-30	1900-1 311 (300-1)			
C CIRCLING	2260-1 643 (700-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	2540-3 923 (1000-3)

ELEV 1617 D TDZE 1589



REIL Rwys 12 and 30 L

MIRL Rwy 3-21 and 12-30 L

FAF to MAP 6.2 NM					
Knots	60	90	120	150	180
Min:Sec	6:12	4:08	3:06	2:29	2:04

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VORTAC CSI 117.5 Chan 122	APP CRS 055°	Rwy ldg N/A TDZE N/A Apt Elev 1617

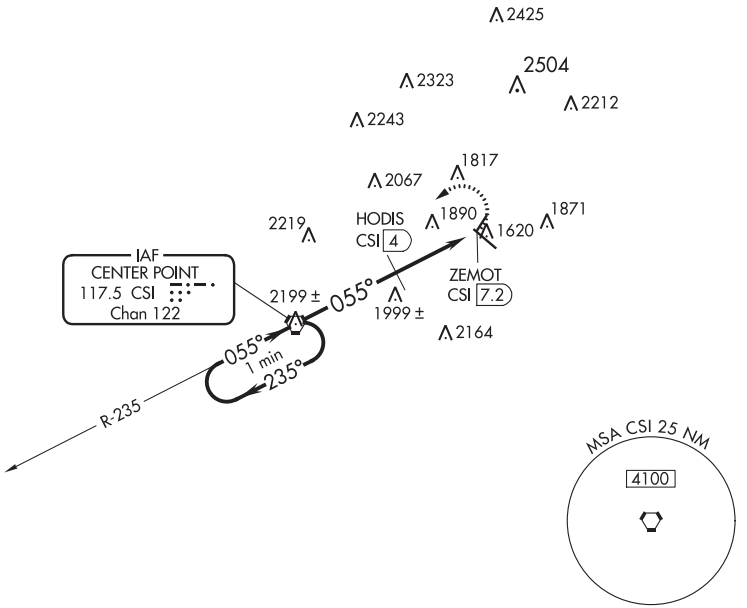
VOR-A

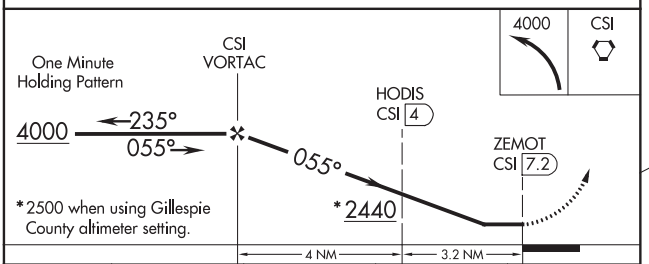
KERRVILLE MUNI/ LOUIS SCHREINER FIELD (ERV)

When local altimeter setting not received, use Fredericksburg altimeter setting and increase all MDAs 60 feet, increase Cat C visibility ¼ SM and HODIS fix minimums Cat C visibility ¼ SM.

MISSED APPROACH: Climbing left turn to 4000 direct CSI VORTAC.

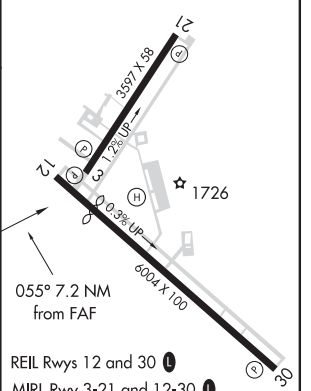
AWOS-3	HOUSTON CENTER	CLNC DEL	UNICOM
118.125	134.95 269.4	134.95	122.7 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	2440-1¼ 823 (900-1¼)	2440-1¼ 823 (900-1¼)	2440-2½ 823 (900-2½)	NA
HODIS FIX MINIMUMS				
C CIRCLING	2320-1 703 (800-1)	2340-1 723 (800-1)	2380-2¼ 763 (800-2¼)	NA

ELEV 1617 D



REIL Rwys 12 and 30 L

MIRL Rwy 3-21 and 12-30 L

FAF to MAP 7.2 NM					
Knots	60	90	120	150	180
Min:Sec	7:12	4:48	3:36	2:53	2:24

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SC-3, 25 FEB 2021 to 22 APR 2021

KILLEEN, TEXAS

AL-5344 (FAA)

20366

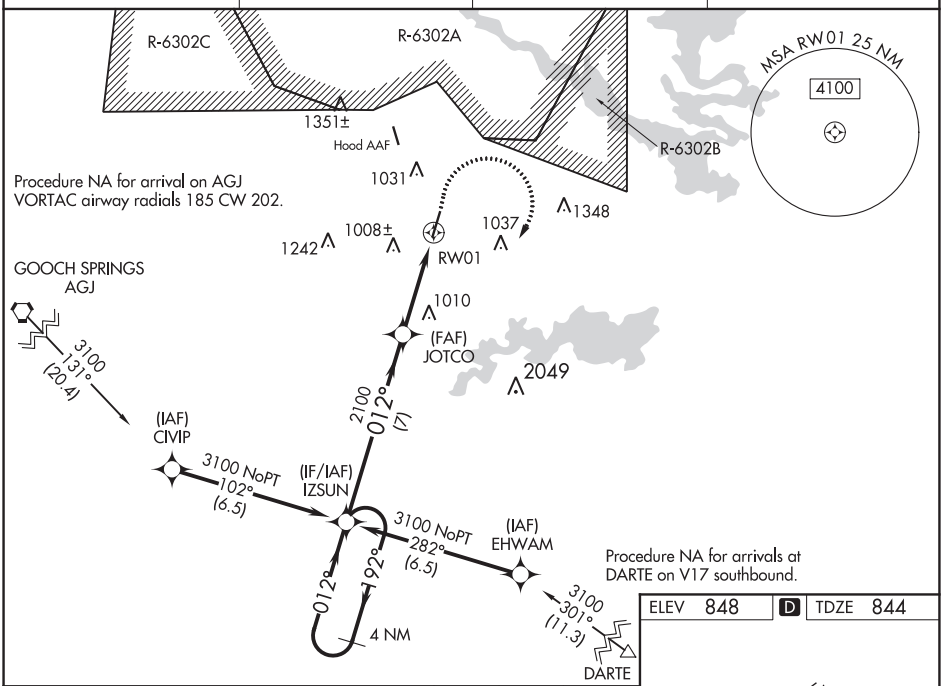
RNAV (GPS) RWY 1
SKYLARK FIELD (ILE)

WAAS CH 50239 W01A	APP CRS 012°	Rwy ldg 4651 TDZE 844 Apt Elev 848

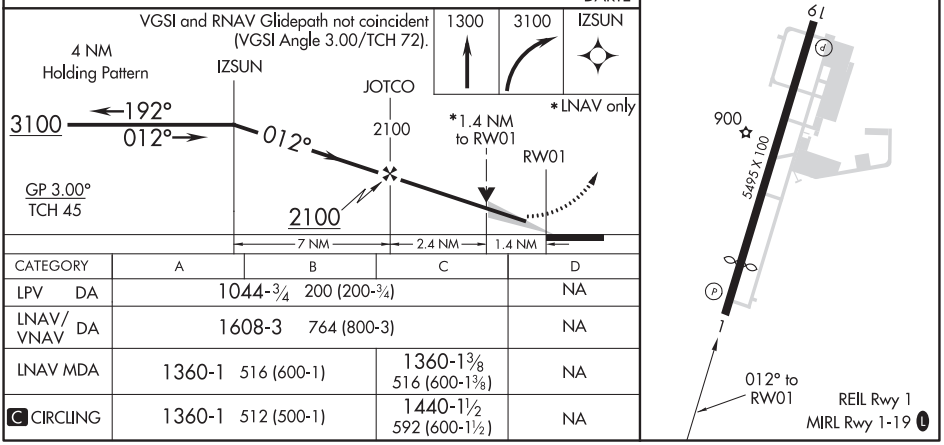
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling Rwy 19 NA at night.

MISSED APPROACH: Climb to 1300 then Climbing right turn to 3100 direct IZSUN and hold.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
128.575	120.075 323.15	121.7	122.7 (CTAF) L



ELEV 848 | D | TDZE 844



CATEGORY	A	B	C	D
LPV DA	1044-¾ 200 (200-¾)			NA
LNAV/VNAV DA	1608-3 764 (800-3)			NA
LNAV MDA	1360-1 516 (600-1)		1360-1⅜ 516 (600-1⅜)	NA
C CIRCLING	1360-1 512 (500-1)		1440-1½ 592 (600-1½)	NA

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

LOC RWY 1
SKYLARK FIELD (ILE)

LOC I-ILE	APP CRS	Rwy ldg / TDZE / Apt Elev
108.3	012°	4641 / 843 / 848

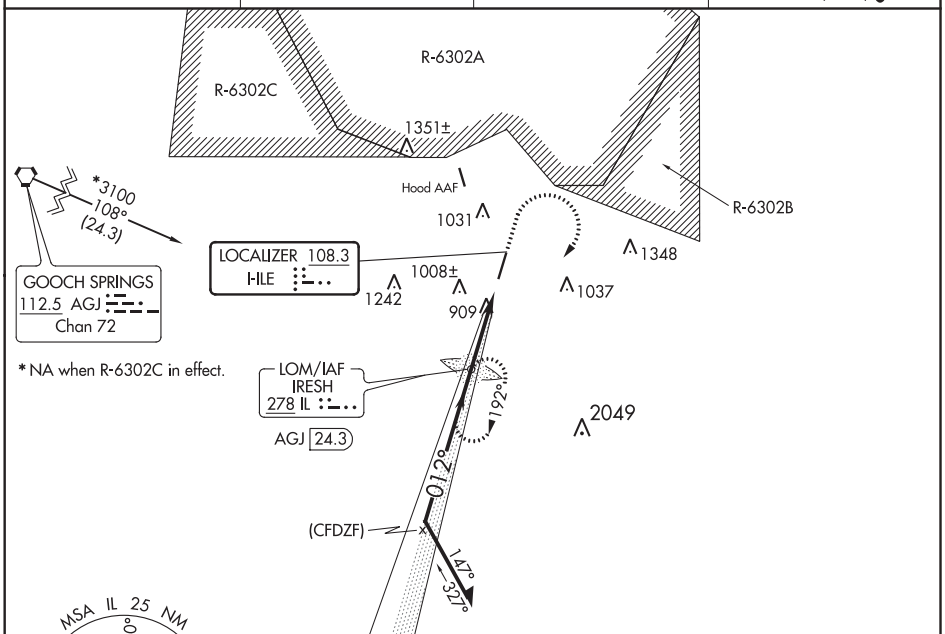
ADF required.

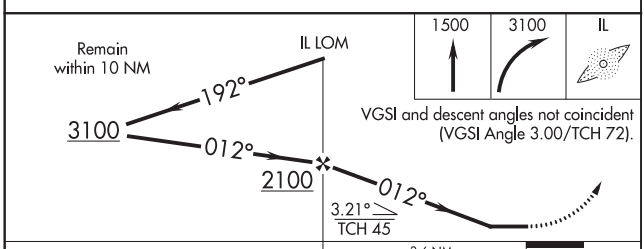
NA

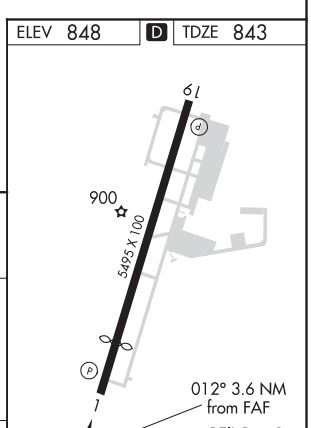
Circling Rwy 19 NA at night.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3100 direct IRESH LOM and hold, continue climb-in-hold to 3100.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
128.575	120.075 323.15	121.7	122.7 (CTAF)







CATEGORY	A	B	C	D
S-1	1160-1 317 (400-1)			NA
C CIRCLING	1300-1 452 (500-1)	1340-1 492 (500-1)	1440-1½ 592 (600-1½)	NA

FAF to MAP 3.6 NM

Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

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KILLEEN, TEXAS

AL-5344 (FAA)

20198

VOR-A

SKYLARK FIELD (ILE)

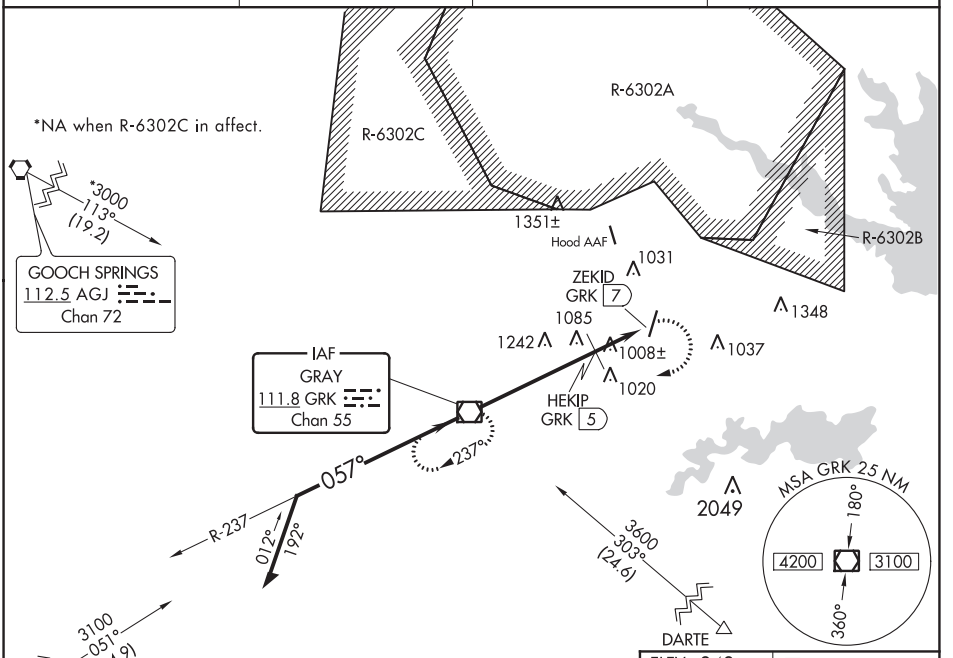
VOR/DME GRK 111.8 Chan 55	APP CRS 057°	Rwy ldg N/A TDZE N/A Apt Elev 848

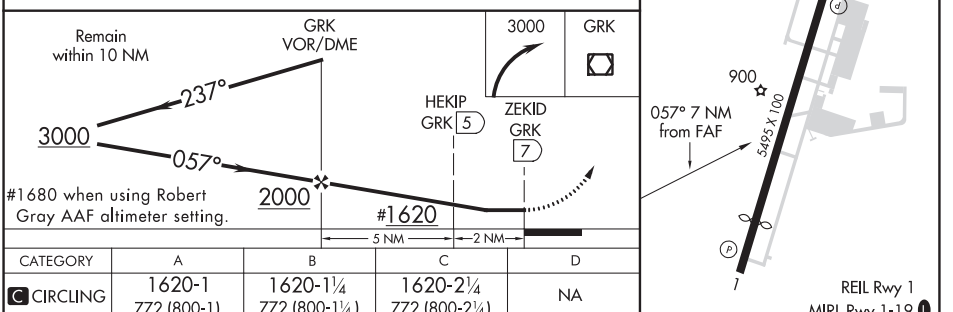
Circling Rwy 19 NA at night.
When local altimeter setting not received, use Robert Gray AAF altimeter setting and increase all MDA 60 feet.

NA

MISSED APPROACH: Climbing right turn to 3000 direct GRK VOR/DME and hold.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
128.575	120.075 323.15	121.7	122.7 (CTAF) L





CATEGORY	A	B	C	D
C CIRCLING	1620-1 772 (800-1)	1620-1¼ 772 (800-1¼)	1620-2¼ 772 (800-2¼)	NA
HEKIP FIX MINIMUMS (DME REQUIRED)				
C CIRCLING	1320-1 472 (500-1)	1360-1 512 (600-1)	1440-1½ 592 (600-1½)	NA

FAF to MAP 7 NM

Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

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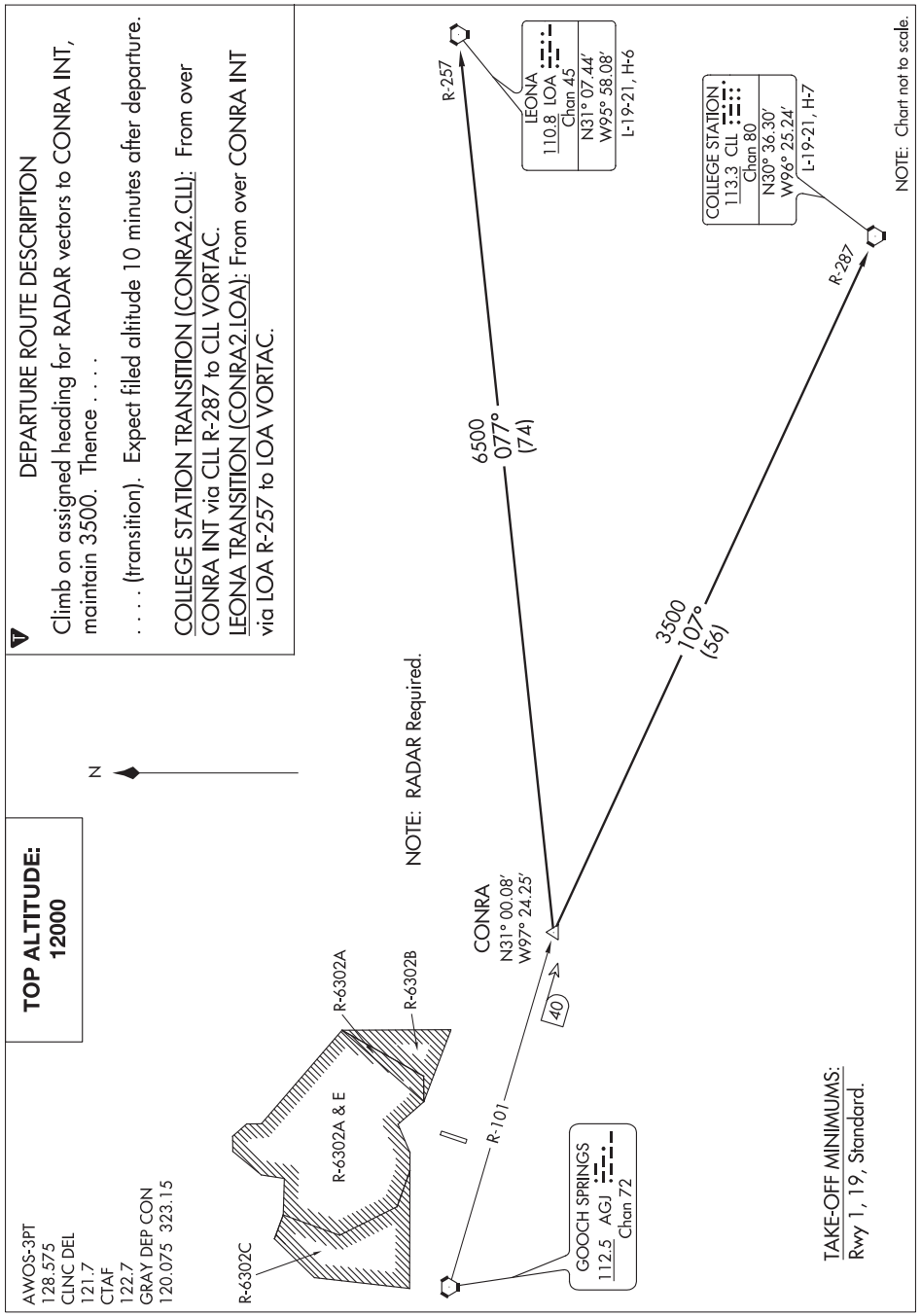
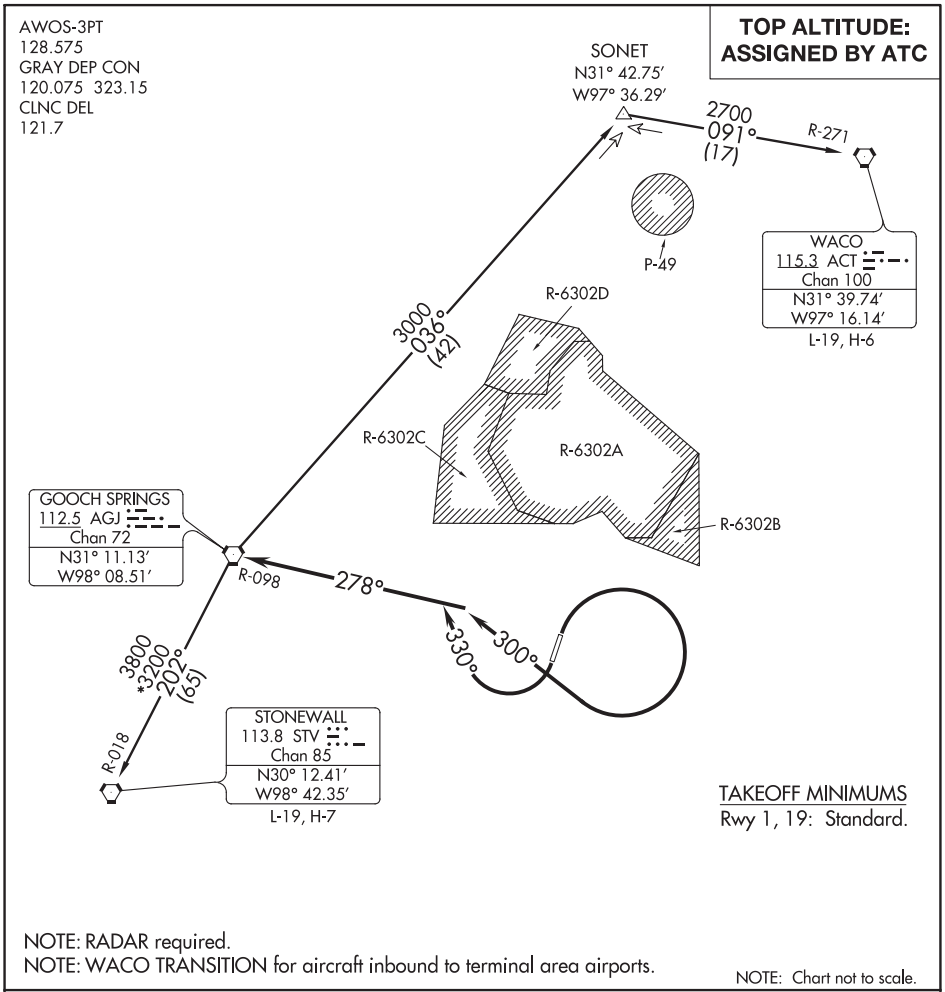
CONRA TWO DEPARTURE



(LAMPS7.AGJ) 19283 AL-5344 (FAA)

LAMPS SEVEN DEPARTURE

SKYLARK FIELD (ILE)
KILLEEN, TEXAS



NOTE: RADAR required.
NOTE: WACO TRANSITION for aircraft inbound to terminal area airports.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 1: Climbing right turn heading 300° (to assigned altitude) to intercept and proceed on AGJ R-098. Thence . . . .
TAKEOFF RWY 19: Climbing right turn heading 330° (to assigned altitude) to intercept and proceed on AGJ R-098. Thence . . . .

. . . . on (transition) or (assigned route).

STONEWALL TRANSITION (LAMPS7.STV): From over AGJ VORTAC on AGJ R-202 and STV R-018 to STV VORTAC.
WACO TRANSITION (LAMPS7.ACT): From over AGJ VORTAC on AGJ R-036 to SONET INT, then on ACT R-271 to ACT VORTAC.

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WAAS CH 86618 W13A	APP CRS 134°	Rwy ldg 6000 TDZE 130 Apt Elev 130

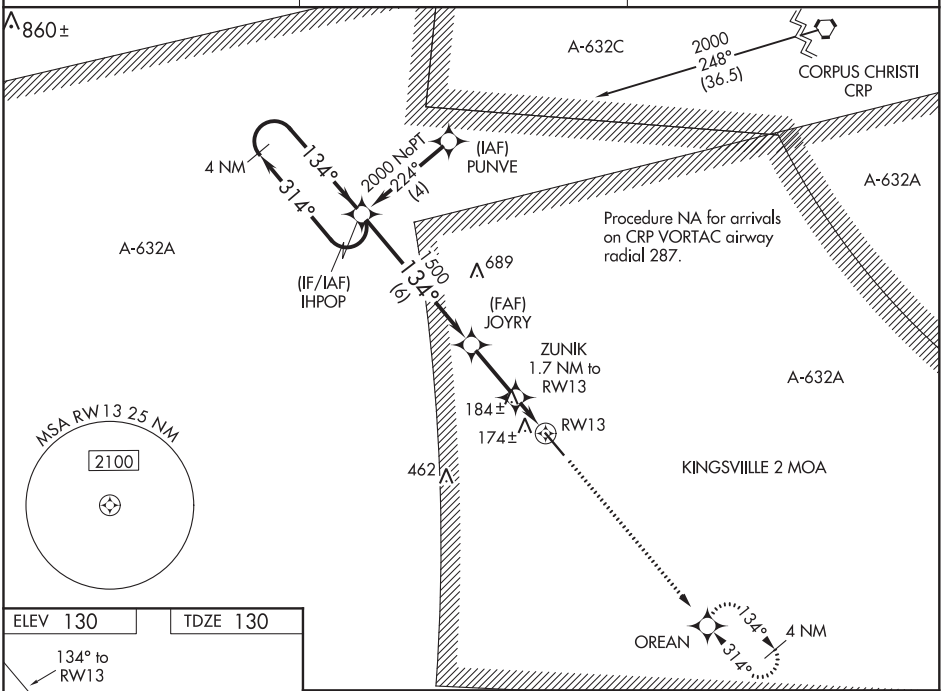
RNAV (GPS) RWY 13
KLEBERG COUNTY (IKG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Alice altimeter setting and increase all DA 33 feet and all MDA 40 feet and LPV all Cats, LNAV/VNAV all Cats, and LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA when using Alice altimeter setting.

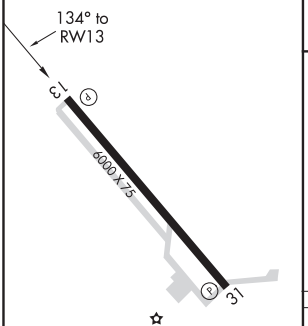
NA

MISSED APPROACH: Climb to 2000 direct OREAN and hold.

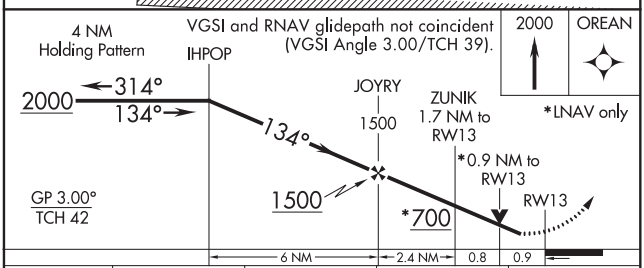
AWOS-3P	KINGSVILLE APP CON ★	UNICOM
119.075	119.9 290.45	122.7 (CTAF) L



ELEV 130 | TDZE 130



REIL Rwys 13 and 31 L
MIRL Rwy 13-31 L



CATEGORY	A	B	C	D
LPV DA	380-¾ 250 (300-¾)			
LNAV/VNAV DA	444-1 314 (400-1)			
LNAV MDA	440-1 310 (400-1)			
CIRCLING	500-1 370 (400-1)	580-1 450 (500-1)	580-1½ 450 (500-1½)	680-2 550 (600-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

KINGSVILLE, TEXAS

20310

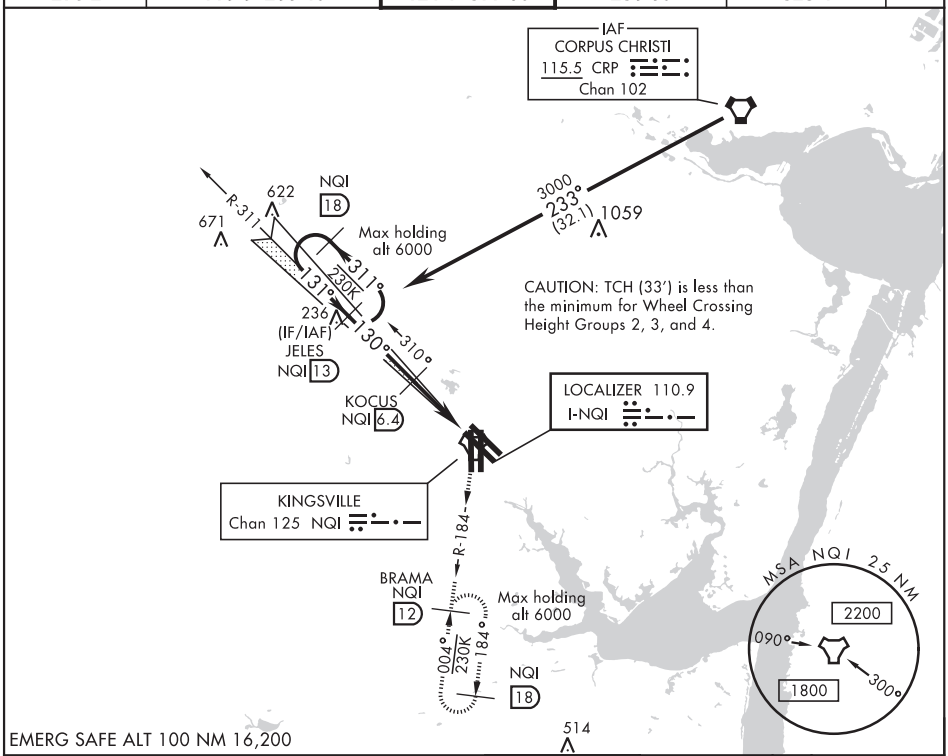
ILS or LOC/DME RWY 13R

LOC I-NQI 110.9	APCH CRS 130°	Rwy ldg 8000 TDZE 50 Arpt Elev 50	AL-918 [USN]	KINGSVILLE NAS (KNQI)

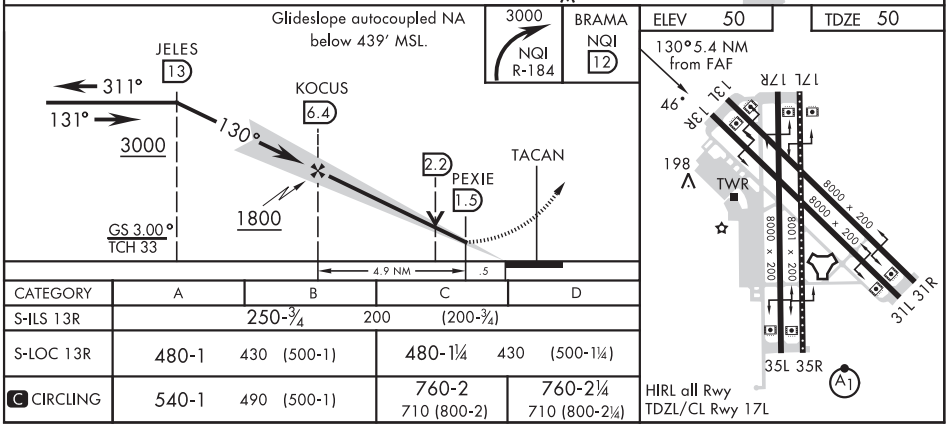
TACAN required.

MISSED APPROACH: Climbing right turn to 3000 to intercept NQI TACAN R-184 to BRAMA and hold.

ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	



EMERG SAFE ALT 100 NM 16,200



CATEGORY	A	B	C	D
S-ILS 13R	250-¾ 200 (200-¾)			
S-LOC 13R	480-1 430 (500-1)		480-1¼ 430 (500-1¼)	
C CIRCLING	540-1 490 (500-1)		760-2 710 (800-2)	760-2¼ 710 (800-2¼)

KINGSVILLE, TEXAS 27°30'N-97°49'W KINGSVILLE NAS (KNQI)

Amdt 1 05NOV20

ILS or LOC/DME RWY 13R

SC-3, 25 FEB 2021 to 22 APR 2021

KINGSVILLE, TEXAS

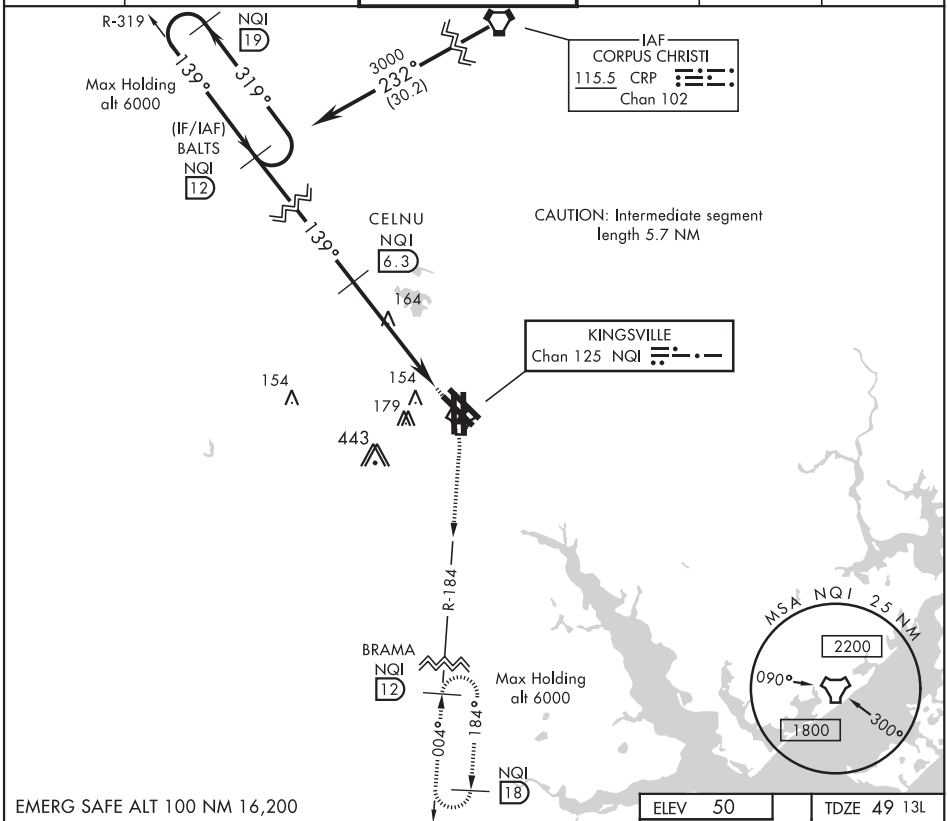
TACAN RWY 13L/R

TACAN NQI Chan 125	APCH CRS 139°	Rwy 13L ldg 8000 TDZE 49 Arpt Elev 50	Rwy 13R ldg 8000 TDZE 50 Arpt Elev 50

AL-918 [USN] KINGSVILLE NAS (KNQI)

MISSED APPROACH: Climbing right turn to 3000 to intercept NQI TACAN R-184 to BRAMA and hold.

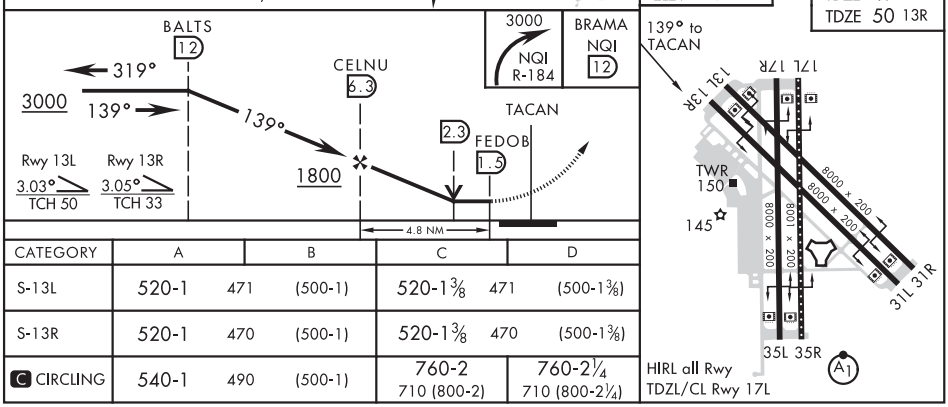
ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	



EMERG SAFE ALT 100 NM 16,200

ELEV 50

TDZE 49 13L
TDZE 50 13R



CATEGORY	A		B		C		D	
S-13L	520-1	471	(500-1)		520-1 3/8	471	(500-1 3/8)	
S-13R	520-1	470	(500-1)		520-1 3/8	470	(500-1 3/8)	
C CIRCLING	540-1	490	(500-1)		760-2 710 (800-2)		760-2 1/4 710 (800-2 1/4)	

KINGSVILLE, TEXAS 27°30′N-97°49′W KINGSVILLE NAS (KNQI)

Amdt 1 05NOV20

TACAN RWY 13L/R

SC-3, 25 FEB 2021 to 22 APR 2021

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KINGSVILLE, TEXAS

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TACAN RWY 17L

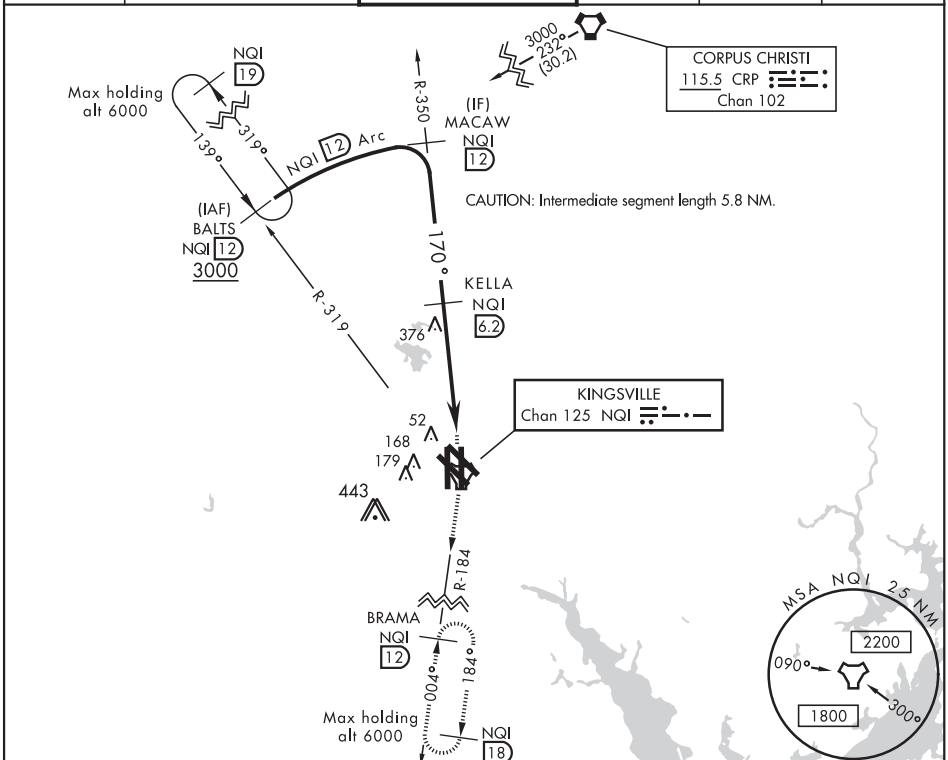
KINGSVILLE NAS (KNQI)

TACAN NQI Chan 125	APCH CRS 170°	Rwy ldg 8001 TDZE 49 Arpt Elev 50

AL-918 [USN]

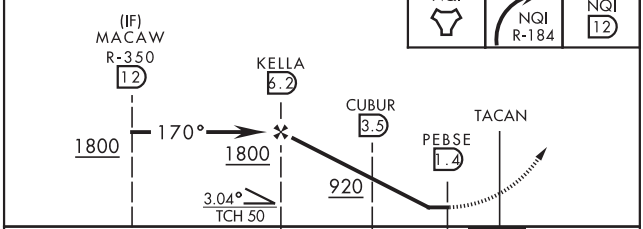
MISSED APPROACH: Climb to 3000 direct NQI TACAN and climbing right turn to intercept NQI R-184 to BRAMA and hold.

ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	

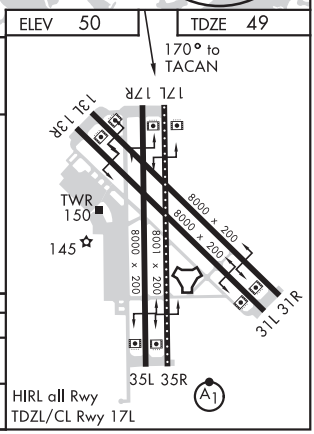


EMERG SAFE ALT 100 NM 16,200

3000 NQI	NQI R-184	BRAMA NQI 12



ELEV 50 | TDZE 49



HIRL all Rwy
TDZL/CL Rwy 17L

CATEGORY	A	B	C	D
S-17L	360-1 311 (400-1)			
C CIRCLING	540-1 490 (500-1)		760-2 710 (800-2)	760-2¼ 710 (800-2¼)

KINGSVILLE, TEXAS

Amdt 1 05NOV20

27°30′N-97°49′W

KINGSVILLE NAS (KNQI)

TACAN RWY 17L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

KINGSVILLE, TEXAS

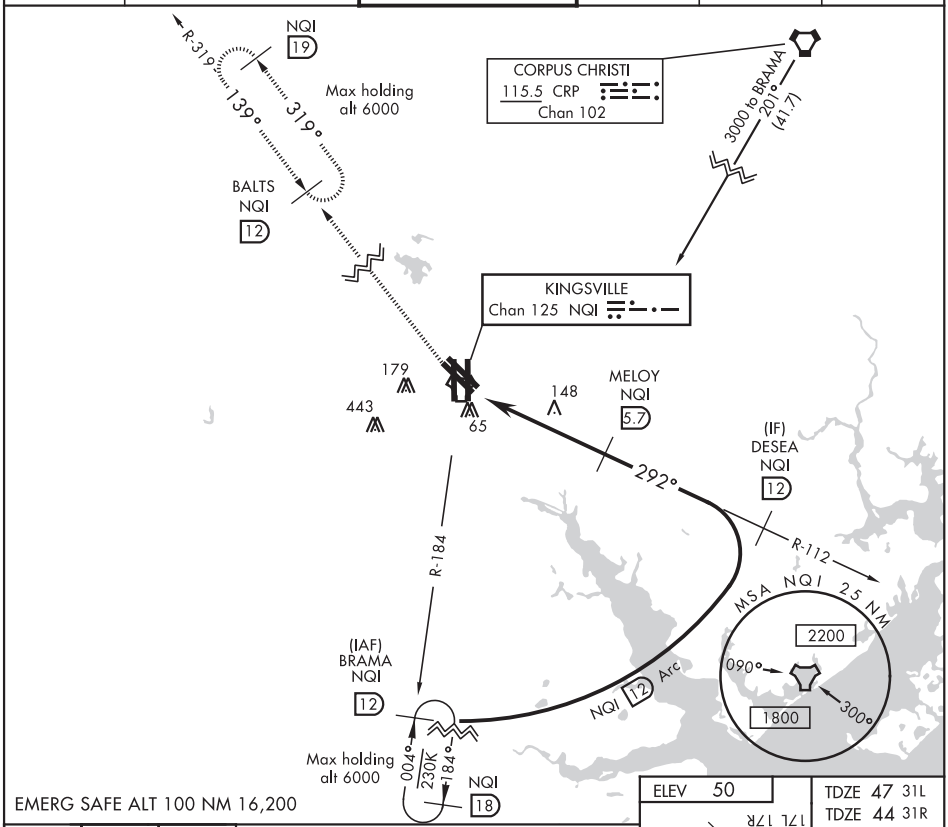
TACAN RWY 31L/R

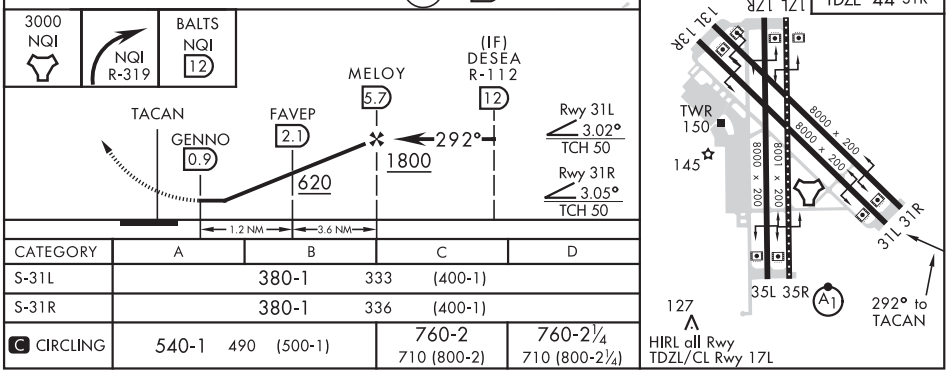
AL-918 [USN] KINGSVILLE NAS (KNQI)

TACAN NQI Chan 125	APCH CRS 292°	Rwy 31L ldg 8000 TDZE 47 Arpt Elev 50	Rwy 31R ldg 8000 TDZE 44 Arpt Elev 50

MISSED APPROACH: Climb to 3000 direct NQI TACAN and climbing right turn to intercept NQI R-319 to BALTS and hold. Continue climb-in-hold to 3000.

ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	





CATEGORY	A	B	C	D
S-31L	380-1 333 (400-1)			
S-31R	380-1 336 (400-1)			
C CIRCLING	540-1 490 (500-1)		760-2 710 (800-2)	760-2¼ 710 (800-2¼)

KINGSVILLE, TEXAS 27°30′N-97°49′W KINGSVILLE NAS (KNQI)

Amdt 1 05NOV20

TACAN RWY 31L/R

SC-3, 25 FEB 2021 to 22 APR 2021

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KINGSVILLE, TEXAS

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TACAN RWY 35R

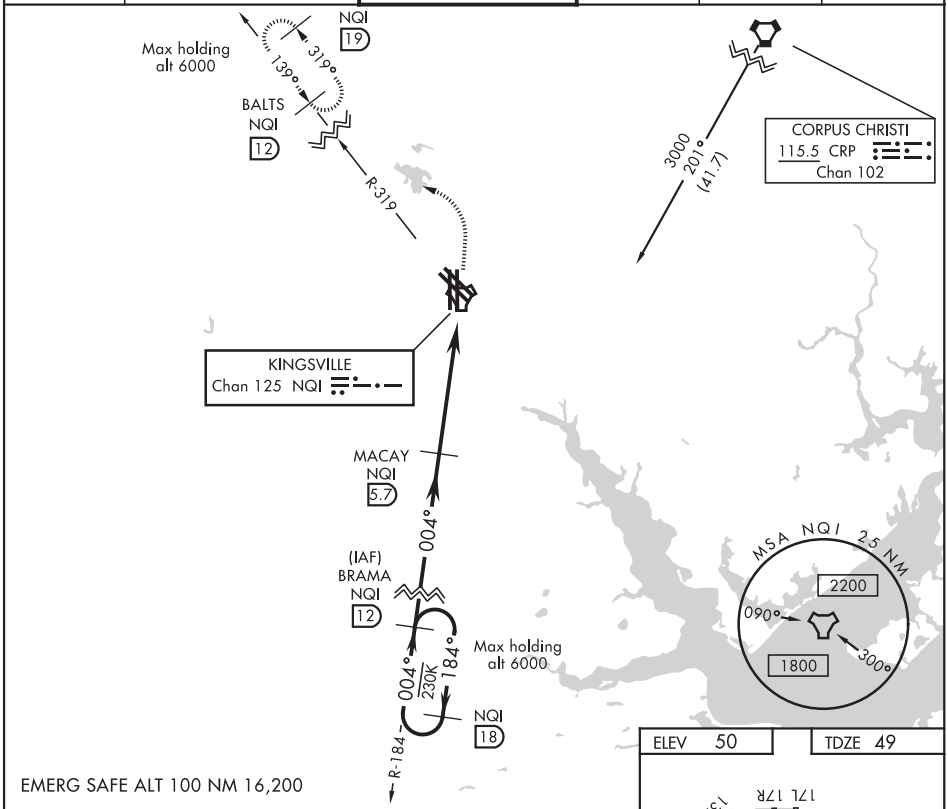
TACAN NQI Chan 125	APCH CRS 004°	Rwy ldg 8001 TDZE 49 Arpt Elev 50	AL-918 [USN]	KINGSVILLE NAS (KNQI)

* When ALS inop, increase vis to 1 mile.

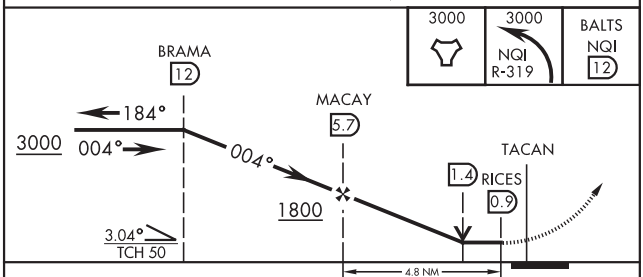
ALSF-1 (A1)

MISSED APPROACH: Climb to 3000 direct NQI TACAN and climbing left turn to intercept NQI R-319 to BALTS and hold. Continue climb-in-hold to 3000.

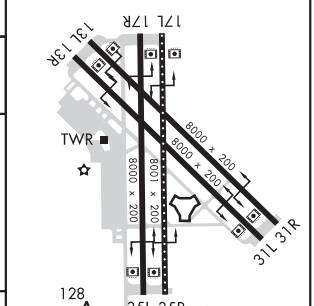
ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	



3000	3000	BALTS NQI 12
	NQI R-319	



ELEV 50 | TDZE 49



004° to TACAN

HIRL all Rwy
TDZL/CL Rwy 17L

CATEGORY	A	B	C	D
S-35R *	420-½ 372 (400-½)		420-¾ 372 (400-¾)	
C CIRCLING	540-1 490 (500-1)		760-2 710 (800-2)	760-2¼ 710 (800-2¼)

KINGSVILLE, TEXAS

Amdt 1 05NOV20

27°30′N-97°49′W

KINGSVILLE NAS (KNQI)

TACAN RWY 35R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

KINGSVILLE, TEXAS

TACAN Y RWY 17R

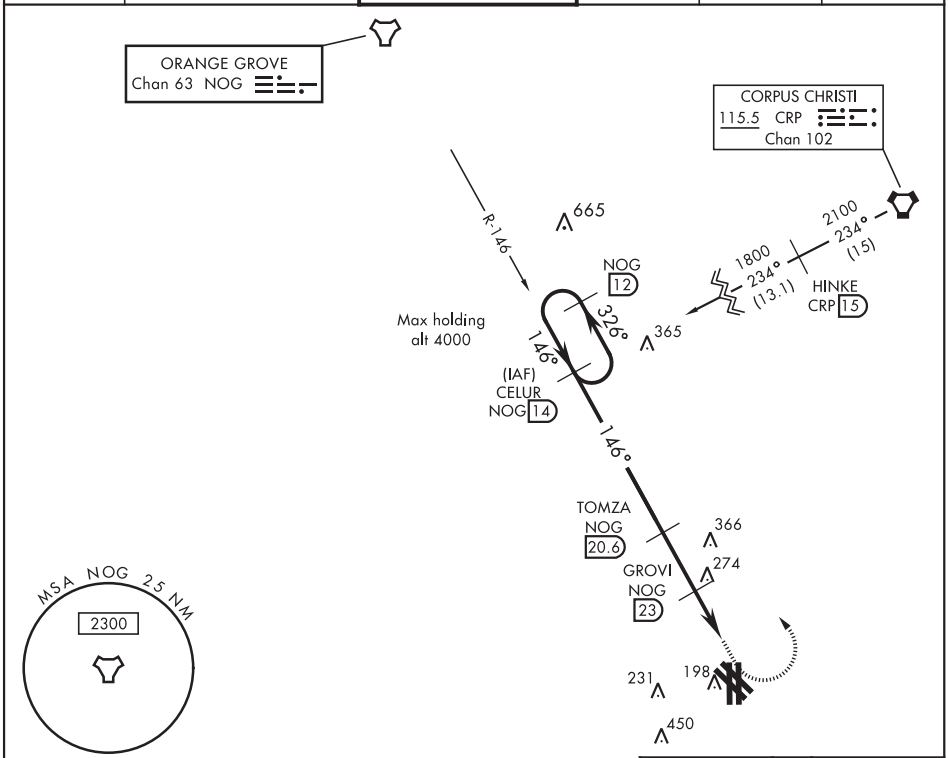
KINGSVILLE NAS (KNQI)

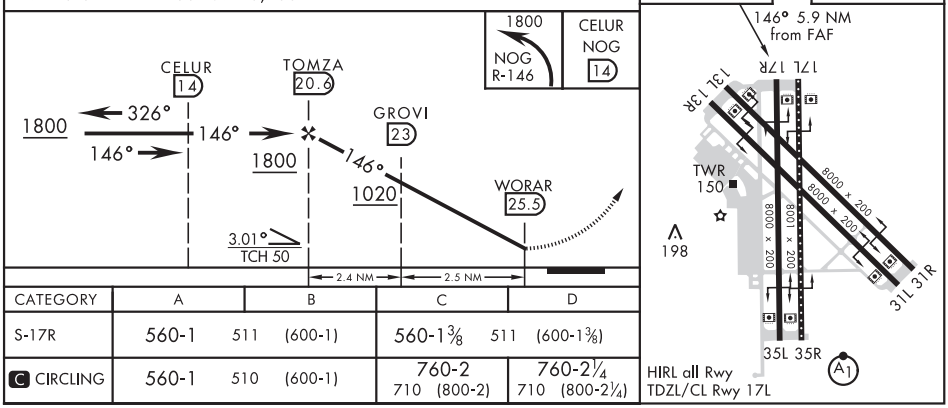
TACAN	APCH CRS	Rwy ldg	8000
NOG Chan 63	146°	TDZE	50
		Arpt Elev	50

AL-918 [USN]

MISSED APPROACH: Climbing left turn to 1800, intercept NOG TACAN R-146 to CELUR and hold.

ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	





CATEGORY	A	B	C	D
S-17R	560-1 511 (600-1)		560-1⅜ 511 (600-1⅜)	
C CIRCLING	560-1 510 (600-1)		760-2 710 (800-2)	760-2¼ 710 (800-2¼)

KINGSVILLE, TEXAS

Amdt 1 05NOV20

27°30′N-97°49′W

KINGSVILLE NAS (KNQI)

TACAN Y RWY 17R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

KINGSVILLE, TEXAS

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TACAN Z RWY 17R

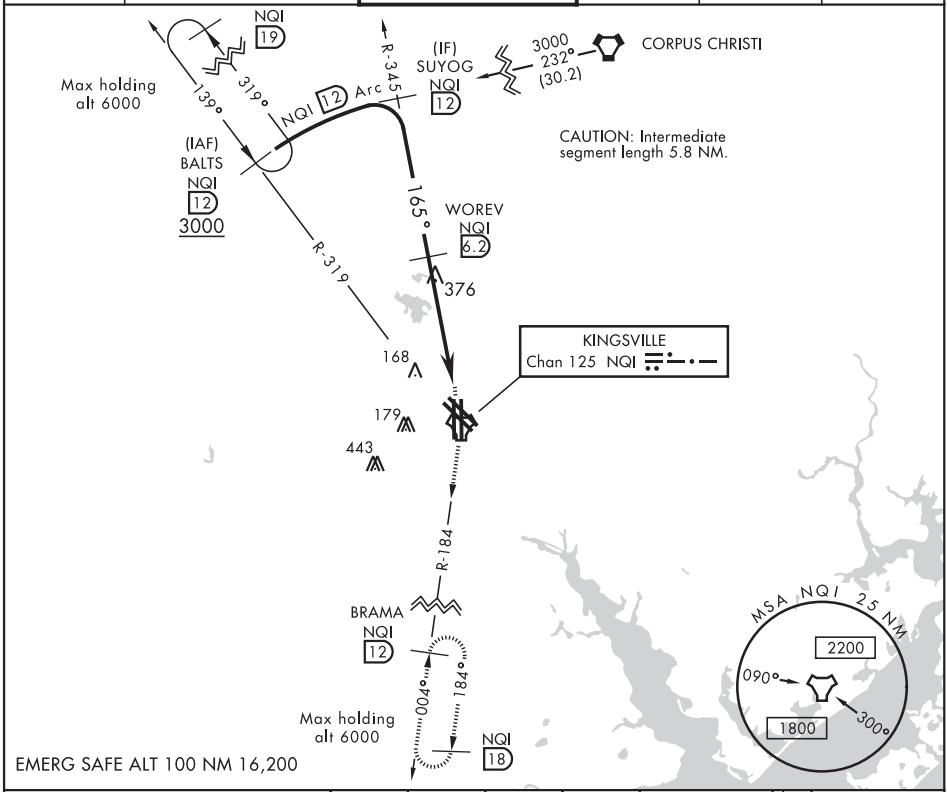
KINGSVILLE NAS (KNQI)

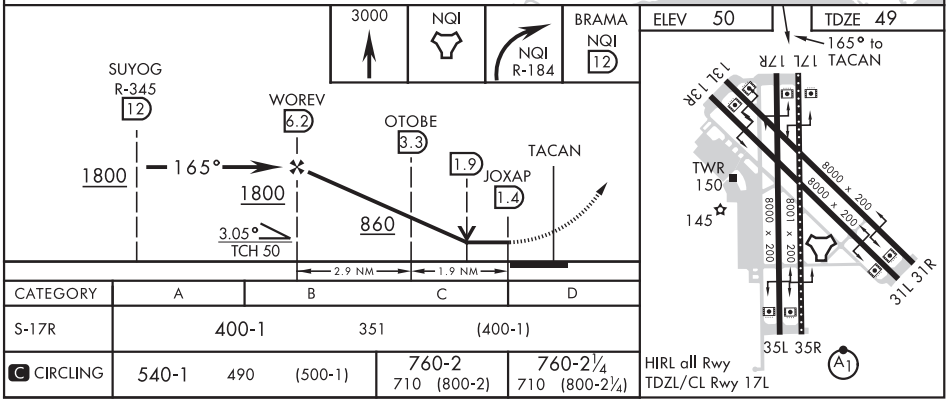
TACAN NQI Chan 125	APCH CRS 165°	Rwy ldg 8000 TDZE 49 Arpt Elev 50

AL-918 [USN]

MISSED APPROACH: Climb to 3000 direct NQI TACAN and climbing right turn to intercept NQI R-184 to BRAMA and hold.

ATIS ★	KINGSVILLE APP CON	KINGSVILLE TOWER ★	GND CON	CLNC DEL	ASR/PAR
276.2	119.9 290.45	124.1 377.05	239.05	328.4	





CATEGORY	A	B	C	D
S-17R	400-1	351	(400-1)	
C CIRCLING	540-1 490 (500-1)	760-2 710 (800-2)	760-2¼ 710 (800-2¼)	

KINGSVILLE, TEXAS

Amdt 1 05NOV20

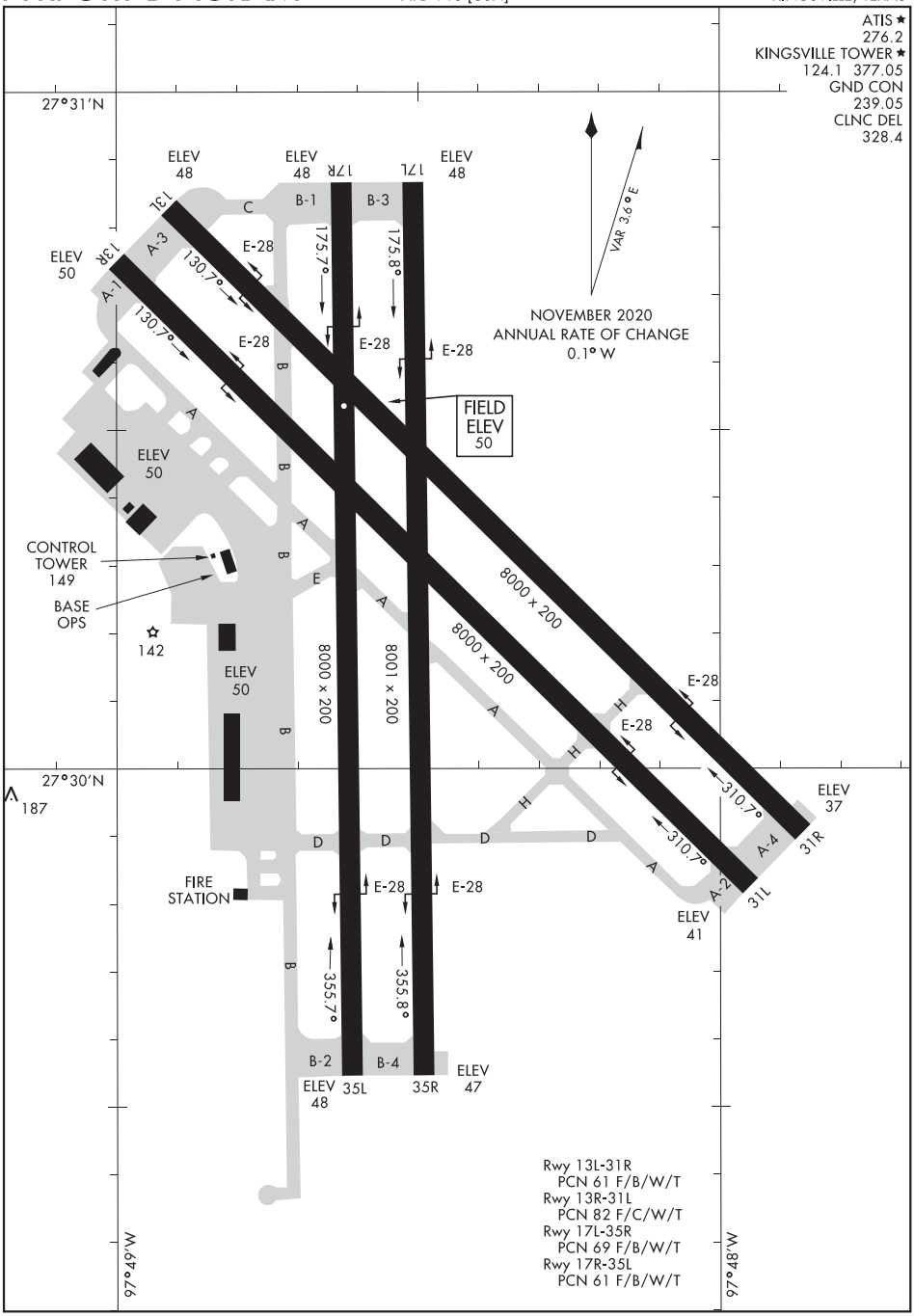
27°30′N-97°49′W

KINGSVILLE NAS (KNQI)

TACAN Z RWY 17R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021



SC-3, 25 FEB 2021 to 22 APR 2021

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20310

KINGSVILLE NAS (KNQI)

KINGSVILLE-THREE DEPARTURE (NQI3•NQI)

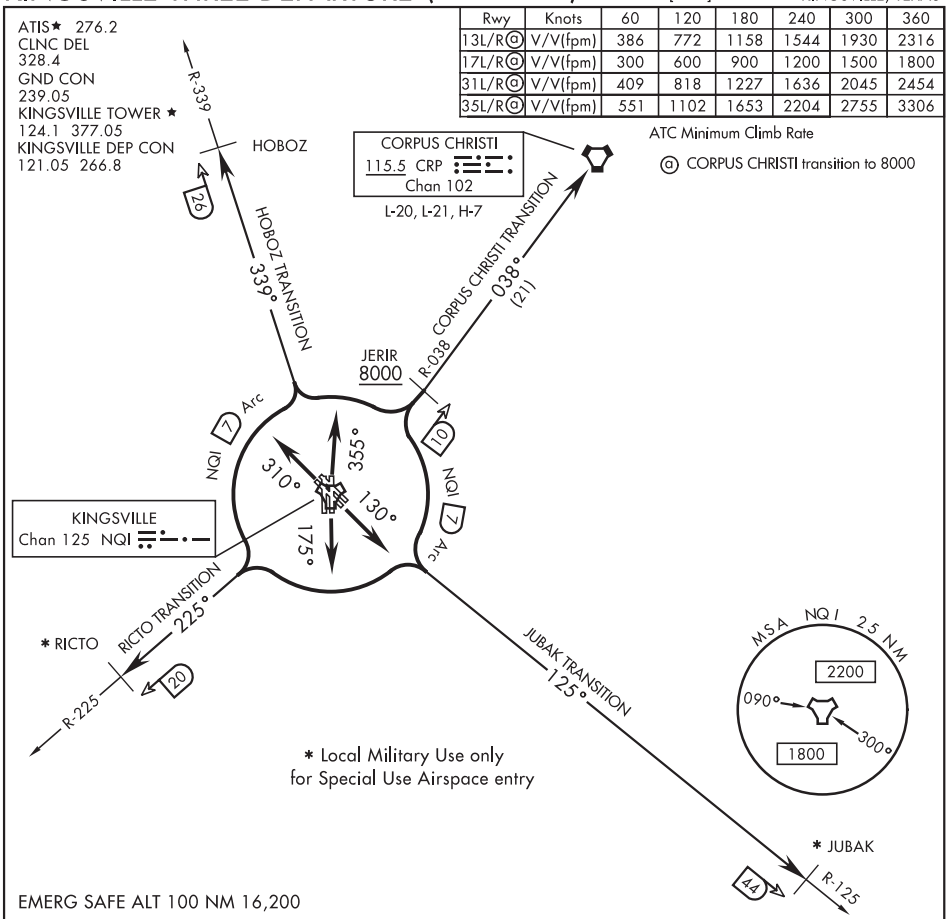
SHL-918 [USN]

KINGSVILLE, TEXAS

Rwy	Knots	60	120	180	240	300	360
13L/R ⓪	V/V(fpm)	386	772	1158	1544	1930	2316
17L/R ⓪	V/V(fpm)	300	600	900	1200	1500	1800
31L/R ⓪	V/V(fpm)	409	818	1227	1636	2045	2454
35L/R ⓪	V/V(fpm)	551	1102	1653	2204	2755	2316

ATC Minimum Climb Rate

⓪ CORPUS CHRISTI transition to 8000



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13L/R: Climb via heading 130° to join NQI TACAN 7 DME arc, thence....

TAKE-OFF RWY 17L/R: Climb via heading 175° to join NQI TACAN 7 DME arc, thence....

TAKE-OFF RWY 31L/R: Climb via heading 310° to join NQI TACAN 7 DME arc, thence....

TAKE-OFF RWY 35L/R: Climb via heading 355° to join NQI TACAN 7 DME arc, thence....

CORPUS CHRISTI TRANSITION (NQI3•CRP):

Rwys 13L/R and 17L/R: Turn left to intercept NQI 7 DME arc and arc NE. Turn right to intercept NQI R-038 to cross JERIR at or above 8000. Then on NQI R-038 to CRP VORTAC.

Rwys 31L/R and 35L/R: Turn right to intercept NQI 7 DME arc and arc NE. Turn left to intercept NQI R-038 to cross JERIR at or above 8000. Then on NQI R-038 to CRP VORTAC.

(Continued on next page)

SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION
(Continued)

HOBOZ TRANSITION (NQI3•HOBOZ):
Rwys 13L/R and 35L/R: Turn left to intercept NQI 7 DME arc and arc NW. Turn right to intercept NQI R-339 to HOBOZ.
Rwys 17L/R and 31L/R: Turn right to intercept NQI 7 DME arc and arc NW. Turn left to intercept NQI R-339 to HOBOZ.

JUBAK TRANSITION (NQI3•JUBAK): *
Rwys 13L/R and 17L/R: Turn left to intercept NQI 7 DME arc and arc SE. Turn right to intercept NQI R-125 to JUBAK.
Rwys 31L/R and 35L/R: Turn right to intercept NQI 7 DME arc and arc SE. Turn left to intercept NQI R-125 to JUBAK.

RICTO TRANSITION (NQI3•RICTO): *
Rwy 13L/R and 17L/R: Turn right to intercept NQI 7 DME arc and arc SW. Turn left to intercept NQI R-225 to RICTO.
Rwy 31L/R and 35L/R: Turn left to intercept NQI 7 DME arc and arc SW. Turn right to intercept NQI R-225 to RICTO.

* RICTO and JUBAK transitions are for local use for Special Use Airspace entry only.

LOST COMMUNICATIONS: If no transmissions are received one minute after departure, climb to assigned altitude, proceed direct assigned NAVAID or intercept NQI TACAN 7 DME arc, arc to respective departure radial then via departure radial to assigned departure fix. Then via assigned transition or route. Once established on departure radial climb to filed altitude.

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LAGO VISTA, TEXAS | AL-6111 (FAA) | 19171

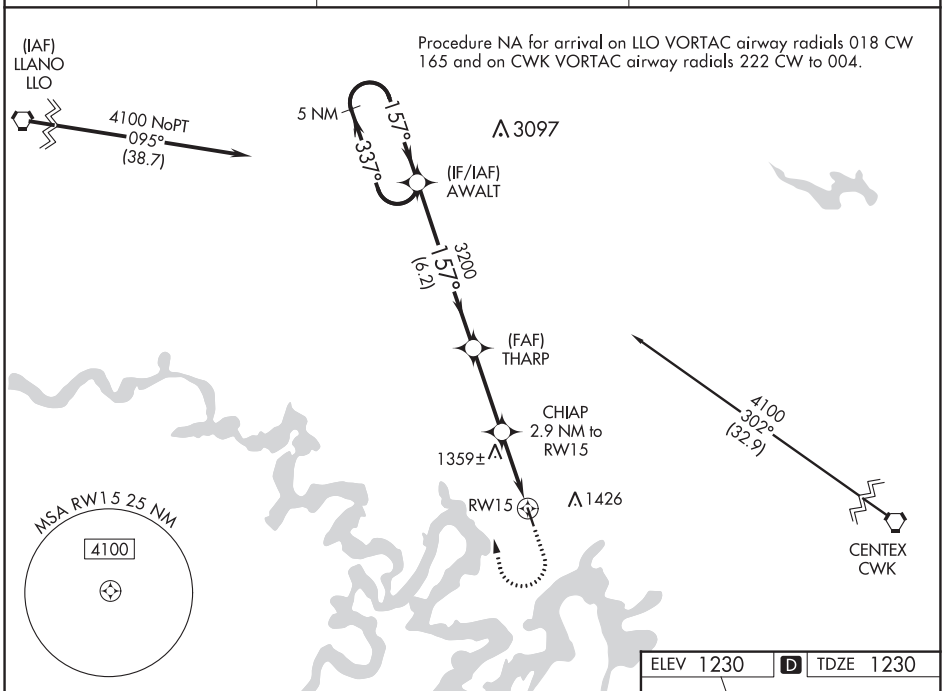
WAAS CH 81831 W15A	APP CRS 157°	Rwy ldg 3808 TDZE 1230 Apt Elev 1230

RNAV (GPS) RWY 15
LAGO VISTA TX-RUSTY ALLEN (RYW)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Rwy 15 helicopter visibility reduction below ¾ SM NA.

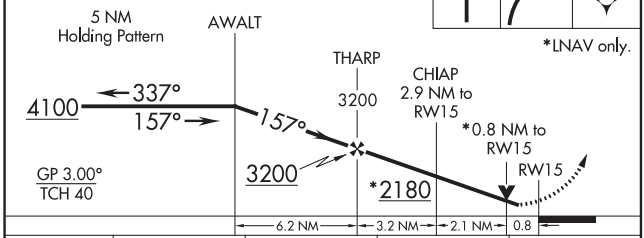
MISSED APPROACH: Climb to 1700 then climbing right turn to 4100 direct AWALT and hold.

ASOS	AUSTIN APP CON	UNICOM
119.375	119.0 370.85	122.725 (CTAF) L

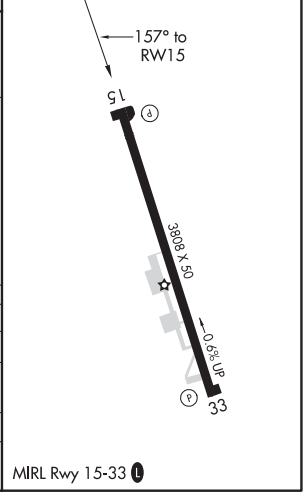


VGSI and RNAV glidepath not coincident (VGSI Angle 4.00/TCH 56).

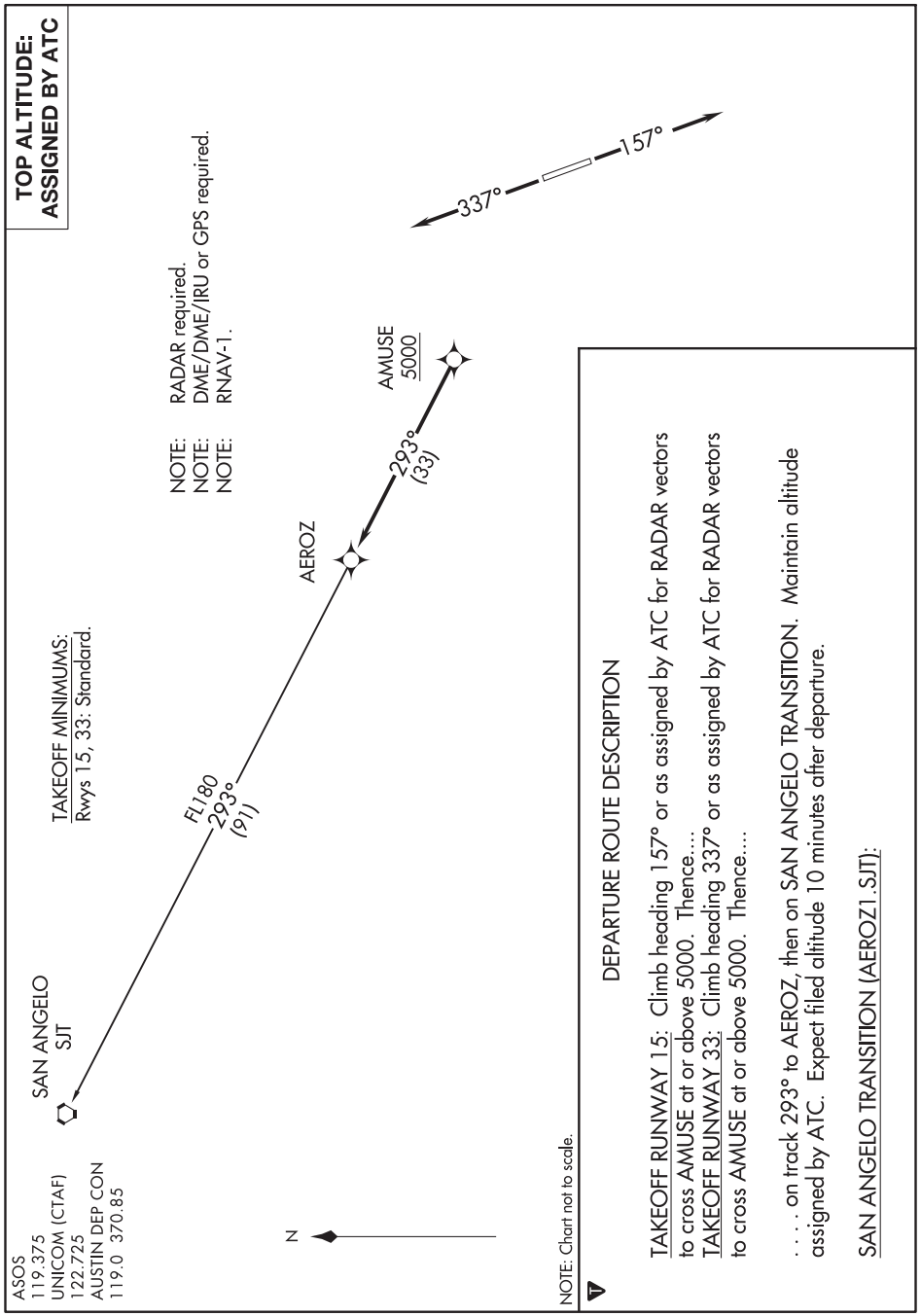
*LNAV only.



CATEGORY	A	B	C	D
LPV DA	1480-1 250 (300-1)		NA	
LNAV/VNAV DA	1641-1⅜ 411 (500-1⅜)		NA	
LNAV MDA	1620-1 390 (400-1)		NA	
C CIRCLING	1660-1 430 (500-1)	1860-1 630 (700-1)	NA	



SC-3, 25 FEB 2021 to 22 APR 2021


TOP ALTITUDE:
ASSIGNED BY ATC
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.
AMUSE
5000
337°
157°
293°
(33)
AEROZ
FL180
293°
(91)
SAN ANGELO
SJT
ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85
N
NOTE: Chart not to scale.
DEPARTURE ROUTE DESCRIPTION
TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.
SAN ANGELO TRANSITION (AEROZ1.SJT):

(BNDIA2.BNDIA) 20142 AL-6111 (FAA)

LAGO VISTA TX-RUSTY ALLEN (RYW)

BNDIA TWO DEPARTURE (RNAV)

LAGO VISTA, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85

337°

157°

GARDS
5000

224°
(36)

BNDIA

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.

NOTE: Chart not to scale.

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....

. . . . on track 224° to BNDIA. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ELOEL TWO DEPARTURE (RNAV)

AL-6111 (FAA)

LAGO VISTA, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85

ABILENE
ABI

FL180
307°
(120)

KLNGR

FORSS

10500
*2700
338°
(20)

10500
*2700
329°
(18)

ELOEL

338°
(10)

WLMRT
5000

337°

157°

TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....

. . . . on track 338° to ELOEL. then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (ELOEL2.ABI):
FORSS TRANSITION (ELOEL2.FORSS):
KLNGR TRANSITION (ELOEL2.KLNGR):

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SC-3, 25 FEB 2021 to 22 APR 2021

ILEXY TWO DEPARTURE (RNAV)

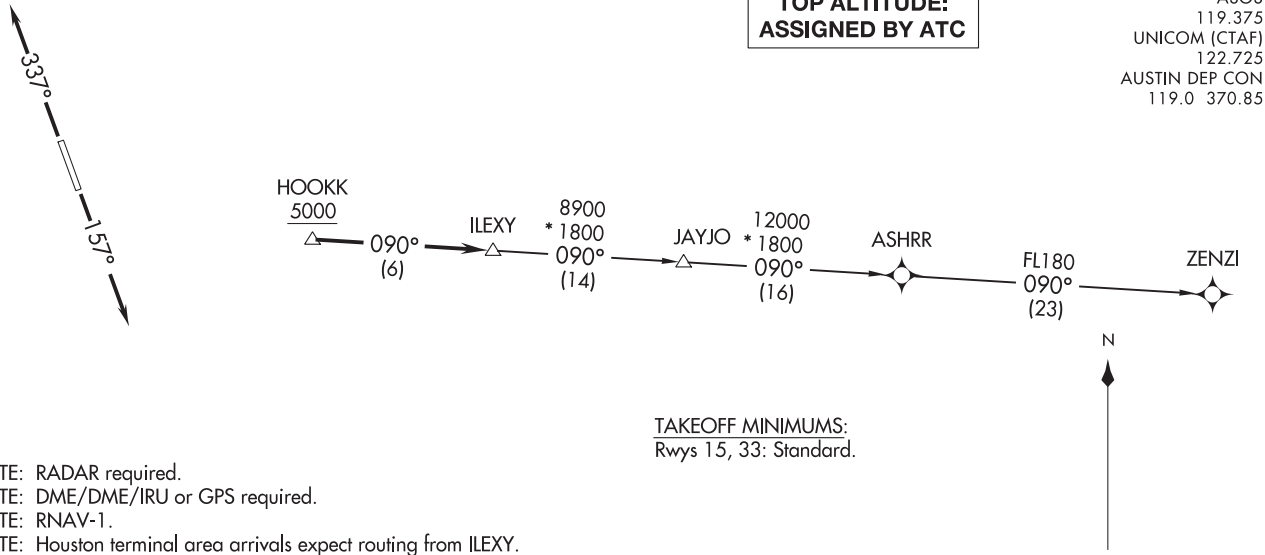
(ILEXY2.ILEXY) 07DEC17

LAGO VISTA TX-RUSTY ALLEN (R YW)

LAGO VISTA, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....

. . . . on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

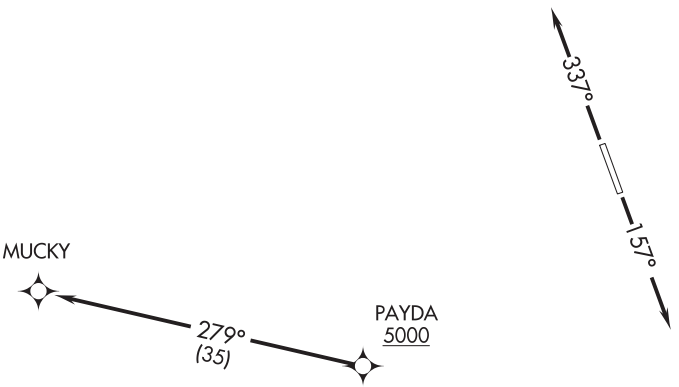
JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSTION (ILEXY2.ZENZI):

ILEXY TWO DEPARTURE (RNAV)
(ILEXY2.ILEXY) 20282
AI-6111 (FAA)
LAGO VISTA TX-RUSTY ALLEN (R YW)
LAGO VISTA, TEXAS

MUCKY TWO DEPARTURE(RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85



TAKEOFF MINIMUMS:
Rwys 15, 33: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000., thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence....

. . . . on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed atitude 10 minutes after departure.

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(SAYBR2.SAYBR) 20142

SAYBR TWO DEPARTURE (RNAV)

AL-6111 (FAA)

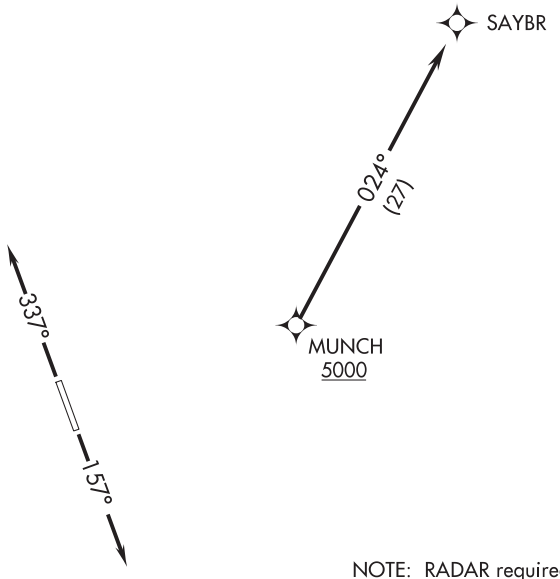
LAGO VISTA TX-RUSTY ALLEN (RYW)
LAGO VISTA, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

ASOS
119.375
UNICOM (CTAF)
122.725
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:

Rwys 15, 33: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 15: Climb heading 157° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence....
TAKEOFF RUNWAY 33: Climb heading 337° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence....

. . . . on track 024° to SAYBR. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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WAAS CH 42531 W16A	APP CRS 165°	Rwy ldg 3148 TDZE 903 Apt Elev 909

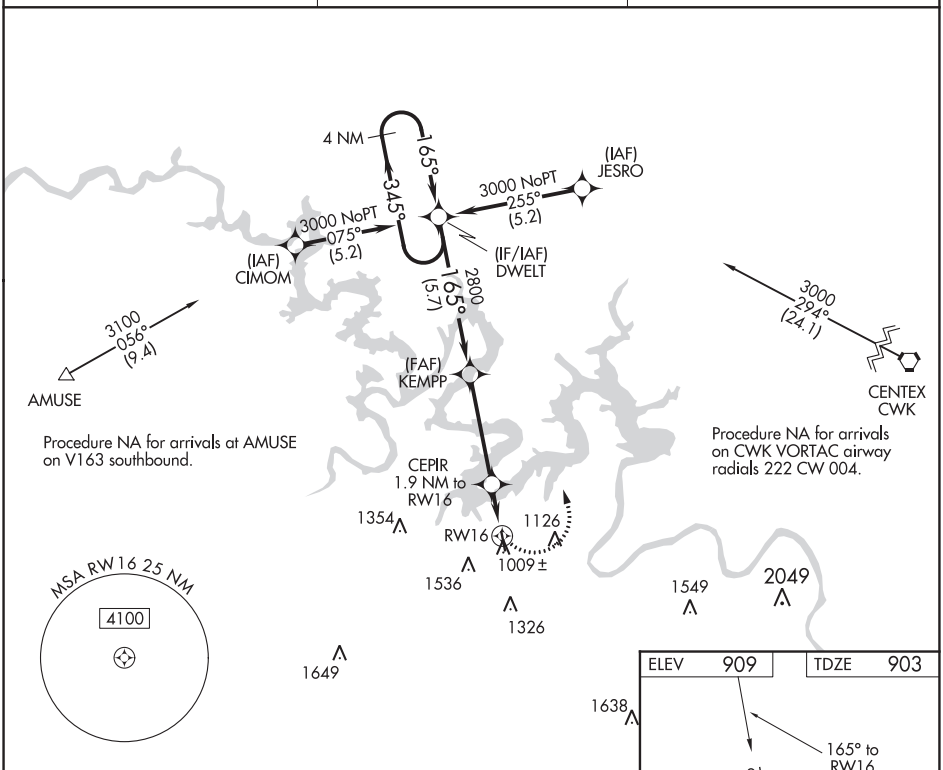
RNAV (GPS) RWY 16
LAKEWAY AIRPARK (3R9)

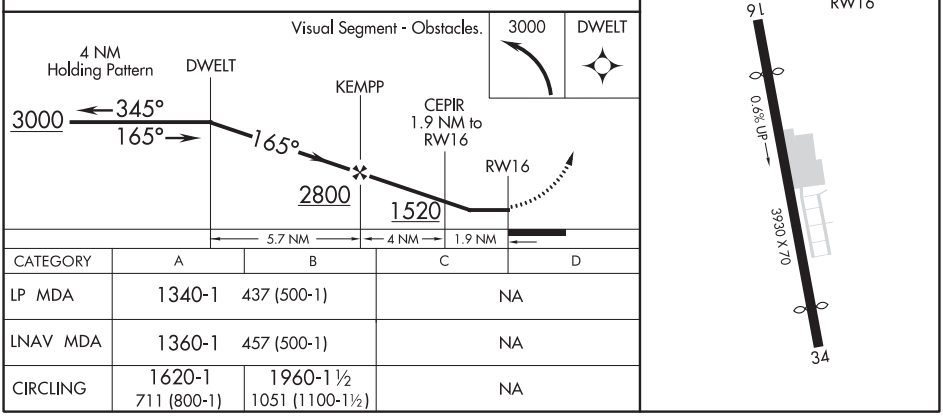
T A NA

Rwy 16, 34 helicopter visibility reduction below 1 SM NA.
DME/DME RNP-0.3 NA. Procedure NA at night.
Use Lago Vista altimeter setting; when not received, use Austin-Bergstrom Intl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to 3000 direct DWELT and hold.

RYW ASOS	AUSTIN APP CON	UNICOM
119.375	119.0 370.85	123.0 (CTAF)





CATEGORY	A	B	C	D
LP MDA	1340-1 437 (500-1)		NA	
LNAV MDA	1360-1 457 (500-1)		NA	
CIRCLING	1620-1 711 (800-1)	1960-1½ 1051 (1100-1½)	NA	

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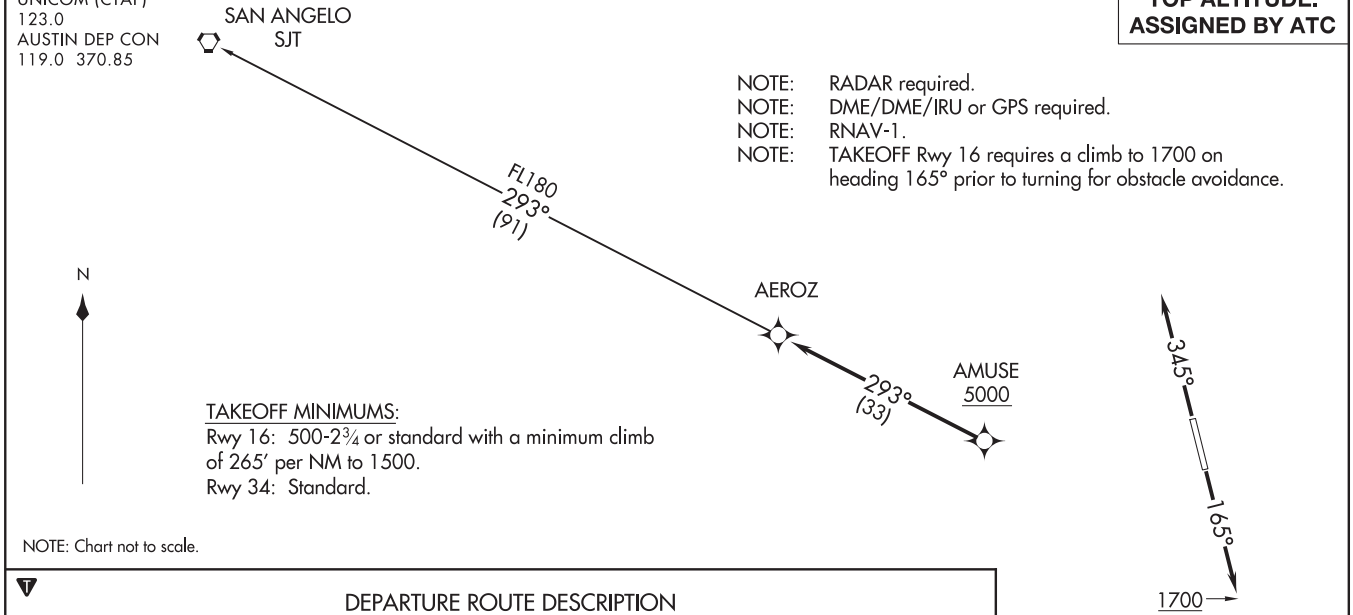
TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.



TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 34: Climb heading 345° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....

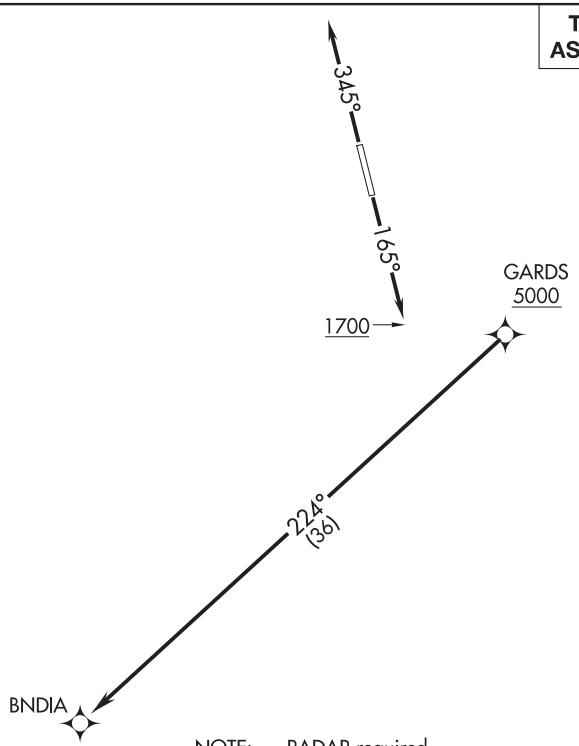
. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SAN ANGELO TRANSITION (AEROZ1.SJT):

BNDIA TWO DEPARTURE (RNAV)

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.

TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.

NOTE: Chart not to scale.

T

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 34: Climb heading 345° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....

. . . . on track 224° to BNDIA.. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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(ELOEL2.ELOEL) 17341

ELOEL TWO DEPARTURE (RNAV)

AL-6677 (FAA)

LAKEWAY AIRPARK (3R9)
LAKEWAY, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85

ABILENE
ABI

FL180
307°
(120)

KLNGR

FORSS

10500
*2700
338°
(20)

10500
*2700
329°
(18)

ELOEL

338°
(10)

WLMRT
5000

345°

165°

1700

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.

TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....
TAKEOFF RWY 34: Climb heading 345° or as assigned by ATC for RADAR vectors to cross WLMRT at or above 5000, thence....

. . . . on track 338° to ELOEL, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

ABILENE TRANSITION (ELOEL2.ABI):
FORSS TRANSITION (ELOEL2.FORSS):
KLNGR TRANSITION (ELOEL2.KLNGR):

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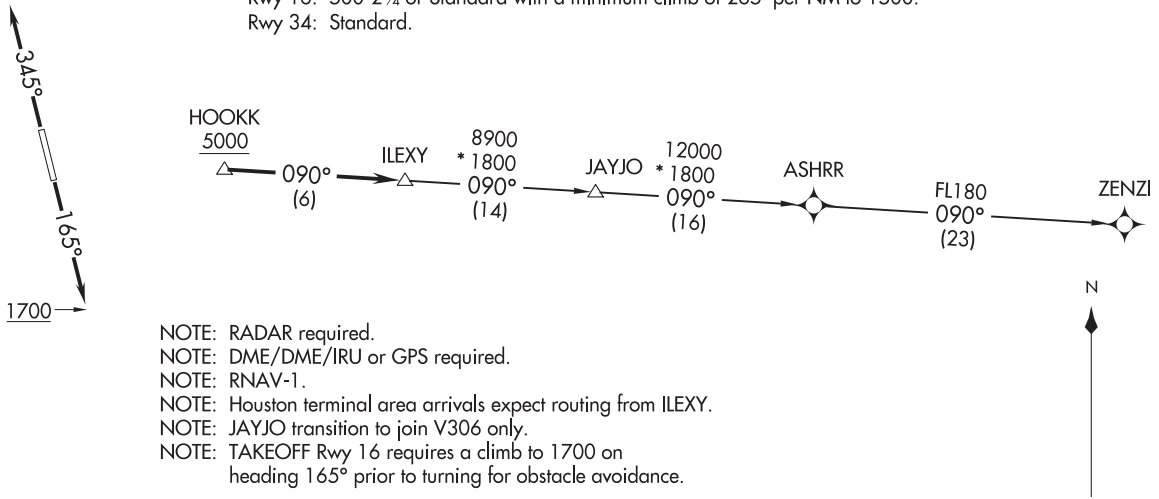
ELOEL TWO DEPARTURE (RNAV)
LAKEWAY, TEXAS
(ELOEL2.ELOEL) 07DEC17
LAKEWAY AIRPARK (3R9)

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85

TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or Standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to HOOKK, at or above 5000, thence.
TAKEOFF RWY 34: Climb on heading 354° or as assigned by ATC for RADAR vectors to HOOKK at or above 5000, thence....

. . . . on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSITION (ILEXY2.ZENZI):

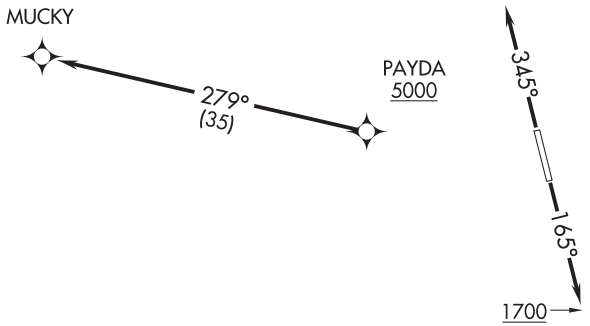
(MUCKY2.MUCKY) 17341 AL-6677 (FAA)

MUCKY TWO DEPARTURE(RNAV)

LAKEWAY AIRPARK (3R9)
LAKEWAY, TEXAS

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC



TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . .
TAKEOFF RWY 34: Climb on heading 344° or as assigned by ATC for RADAR vectors to cross PAYDA at of above 5000, thence . . . .

. . . . on track 279° to MUCKY. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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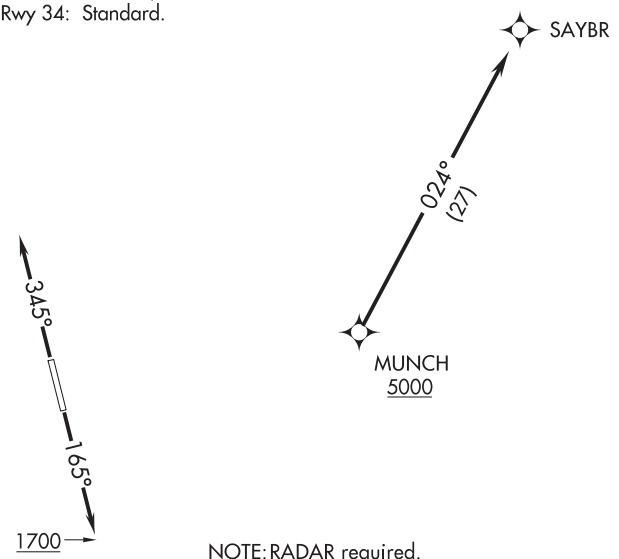
SAYBR TWO DEPARTURE (RNAV)

AL-6677 (FAA)

UNICOM (CTAF)
123.0
AUSTIN DEP CON
119.0 370.85

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwy 16: 500-2¾ or standard with a minimum climb of 265′ per NM to 1500.
Rwy 34: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.
NOTE: TAKEOFF Rwy 16 requires a climb to 1700 on heading 165° prior to turning for obstacle avoidance.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 16: Climb heading 165° to 1700, then as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . .
TAKEOFF RWY 34: Climb on heading 345° or as assigned by ATC for RADAR vectors to cross MUNCH at of above 5000, thence . . . .

. . . . on track 024° to SAYBR. Maintain altitude assigned by ATC.
Expect filed altitude 10 minutes after departure.

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LAMPASAS, TEXAS

AL-6267 (FAA)

20366

RNAV (GPS) RWY 34

LAMPASAS (LZZ)

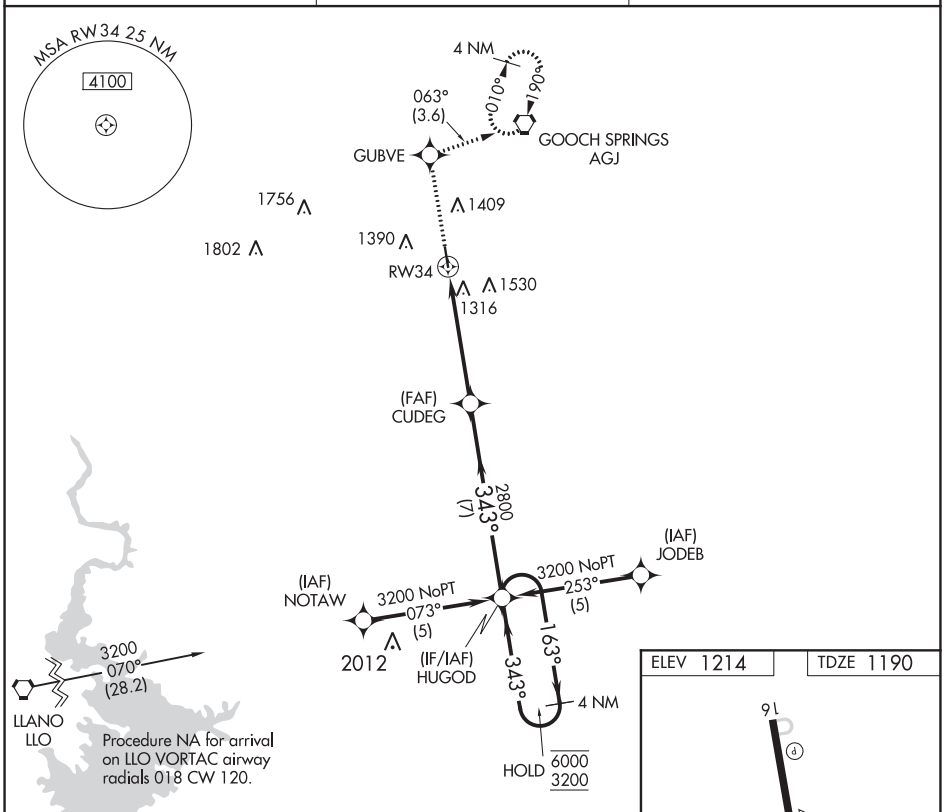
APP CRS	Rwy ldg	4202
343°	TDZE	1190
	Apt Elev	1214

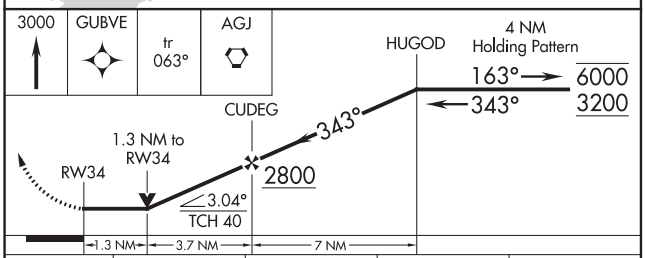
RNP APCH.

Circling Rwy 16 NA at night.
Rwy 34 helicopter visibility reduction below ¾ SM NA.

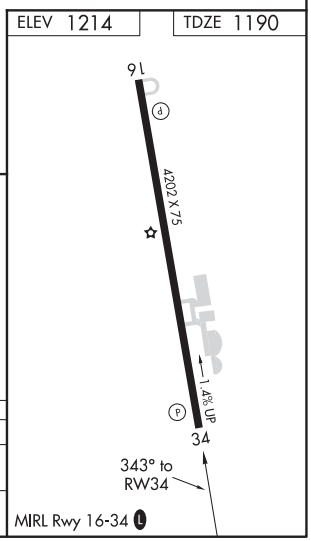
MISSED APPROACH: Climb to 3000 direct GUBVE and on track 063° to AGJ VORTAC and hold.

AWOS-3	GRAY APP CON	UNICOM
119.075	120.075 323.15	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1620-1 430 (500-1)		1620-1¼ 430 (500-1¼)	NA
CIRCLING	1680-1 466 (500-1)	1720-1 506 (600-1)	1720-1½ 506 (600-1½)	NA



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LAMPASAS, TEXAS

Orig-A 11OCT18

31°06'N-98°12'W

LAMPASAS (LZZ)

RNAV (GPS) RWY 34

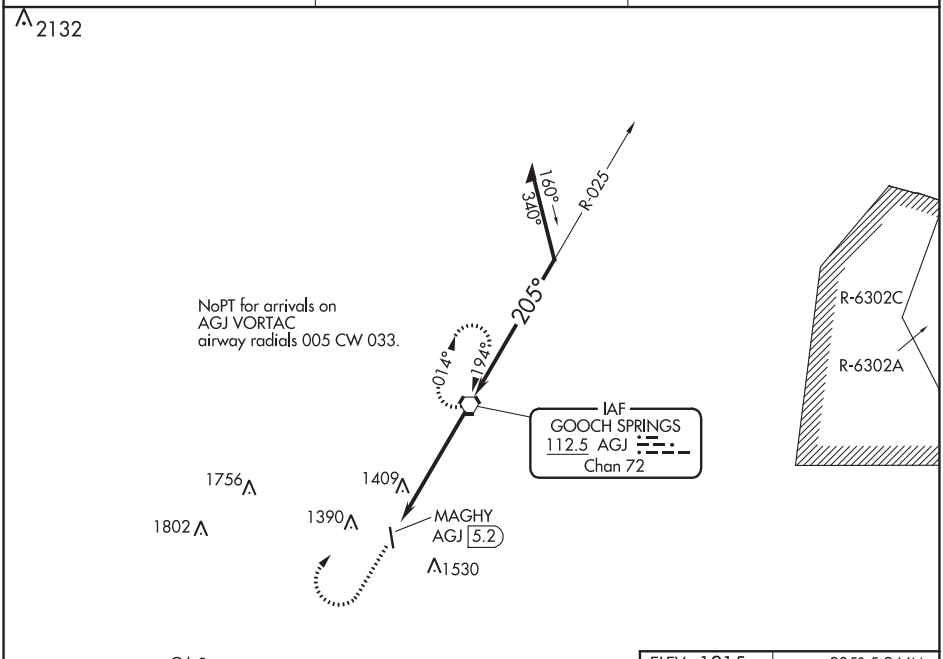
VOR-A
LAMPASAS (LZZ)

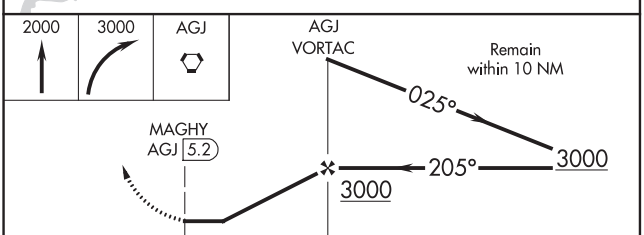
VORTAC AGJ 112.5 Chan 72	APP CRS 205°	Rwy ldg N/A TDZE N/A Apt Elev 1215

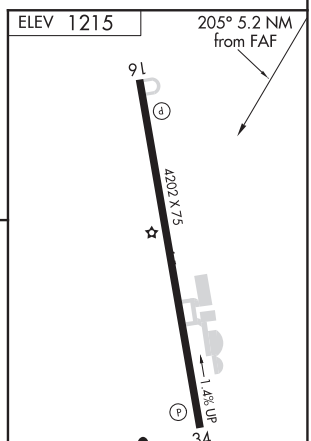
When local altimeter setting not received, use Robert Gray AAF altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2000 then climbing right turn to 3000 direct AGJ VORTAC and hold.

AWOS-3	GRAY APP CON	UNICOM
119.075	120.075 323.15	122.8 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	1680-1 465 (500-1)	1720-1 505 (600-1)	1720-1½ 505 (600-1½)	NA

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

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LAREDO, TEXAS | AL-226 (FAA) | 20142

ILS or LOC RWY 18R
LAREDO INTL (LRD)

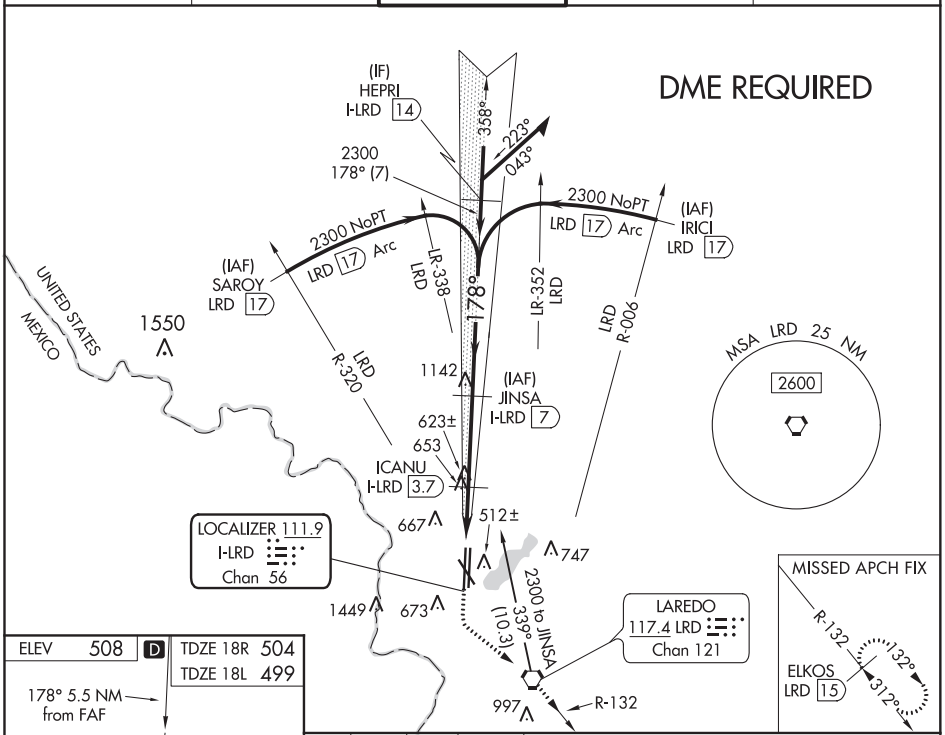
LOC/DME I-LRD	APP CRS	Rwy ldg	18R	18L
111.9	178°		8743	8236
Chan 56		TDZE	504	499
		Apt Elev	508	508

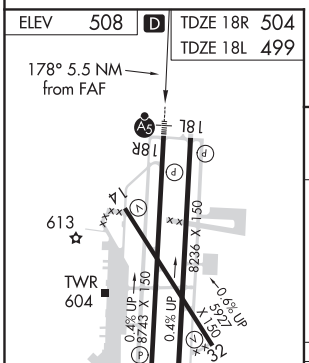
Circling NA west of Rwys 14 and 36L.
DME required.
For inop ALS, increase S-ILS 18R Cat E visibility to ¾ SM and increase S-LOC 18R Cat C/D/E visibility to 1⅛ SM.

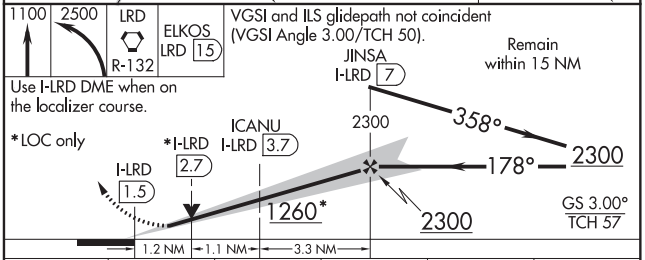
MALSR

MISSED APPROACH: Climb to 1100 then climbing left turn to 2500 direct LRD VORTAC and on LRD VORTAC R-132 to ELKOS/LRD 15 DME and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1 (CTAF) L 257.9	121.8	122.95







CATEGORY	A	B	C	D	E
S-ILS 18R	704-½ 200 (200-½)				
S-LOC 18R	920-½ 416 (500-½)		920-¾ 416 (500-¾)		
SIDESTEP 18L	920-1 421 (500-1)		920-1½ 421 (500-1½)	920-2 421 (500-2)	
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R

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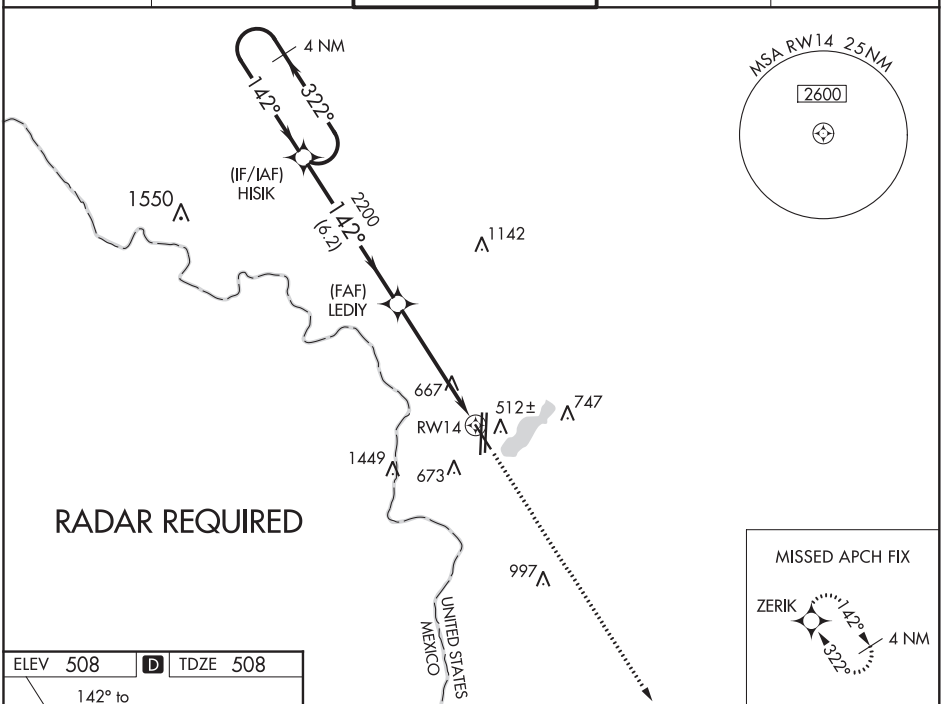
RNAV (GPS) RWY 14
LAREDO INTL (LRD)

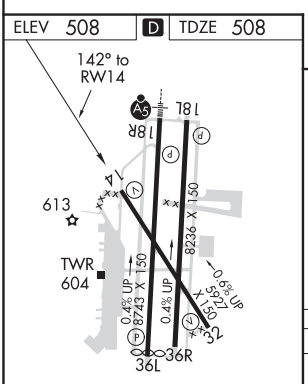
WAAS CH 65841 W14A	APP CRS 142°	Rwy ldg 5927 TDZE 508 Apt Elev 508

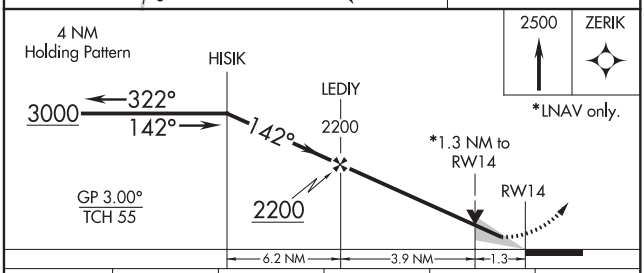
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA west of Rwys 14 and 36L. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500 direct ZERIK and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) L 257.9	121.8	122.95







CATEGORY	A	B	C	D	E
LPV DA	758-¾ 250 (300-¾)				
LNAV/VNAV DA	810-⅞ 302 (400-⅞)				
LNAV MDA	960-1 452 (500-1)		960-1⅜ 452 (500-1⅜)		
C CIRCLING	960-1 452 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R

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LAREDO, TEXAS

AL-226 (FAA)

20142

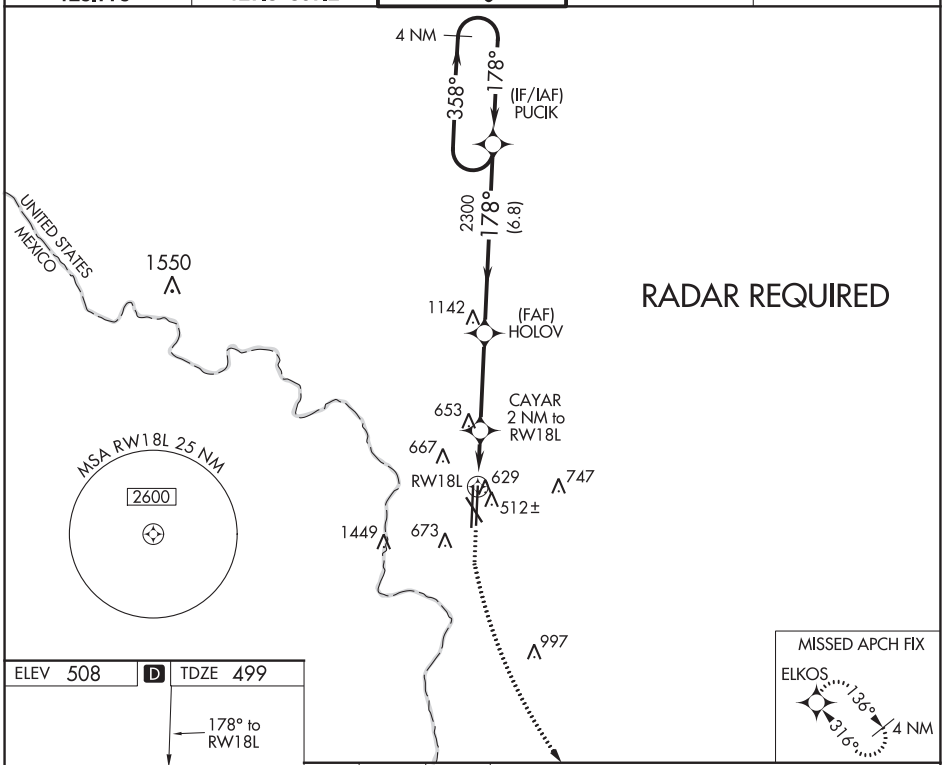
RNAV (GPS) RWY 18L
LAREDO INTL (LRD)

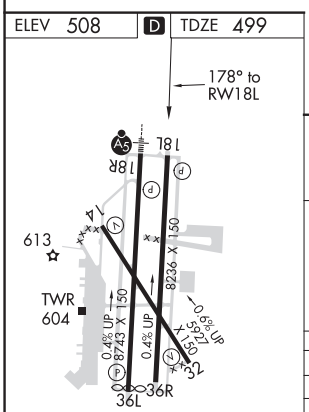
WAAS Ch 77899 W18B	APP CRS 178°	Rwy ldg 8236 TDZE 499 Apt Elev 508

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F).
Circling NA west of Rwys 14 and 36L. DME/DME RNP-0.3 NA.

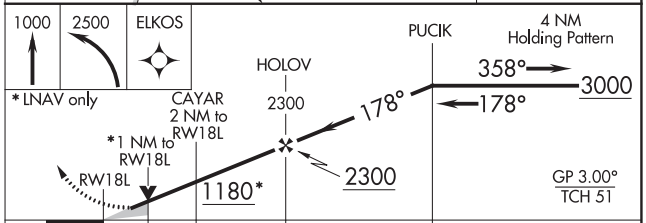
MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct ELKOS and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) 257.9	121.8	122.95





MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R



CATEGORY	A	B	C	D	E
LPV DA	699-¾ 200 (200-¾)				
LNAV/VNAV DA	810-⅞ 311 (400-⅞)				
LNAV MDA	880-1 381 (400-1)		880-1⅛ 381 (400-1⅛)		
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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WAAS Ch 82599 W18A	APP CRS 178°	Rwy ldg 8743 TDZE 504 Apt Elev 508

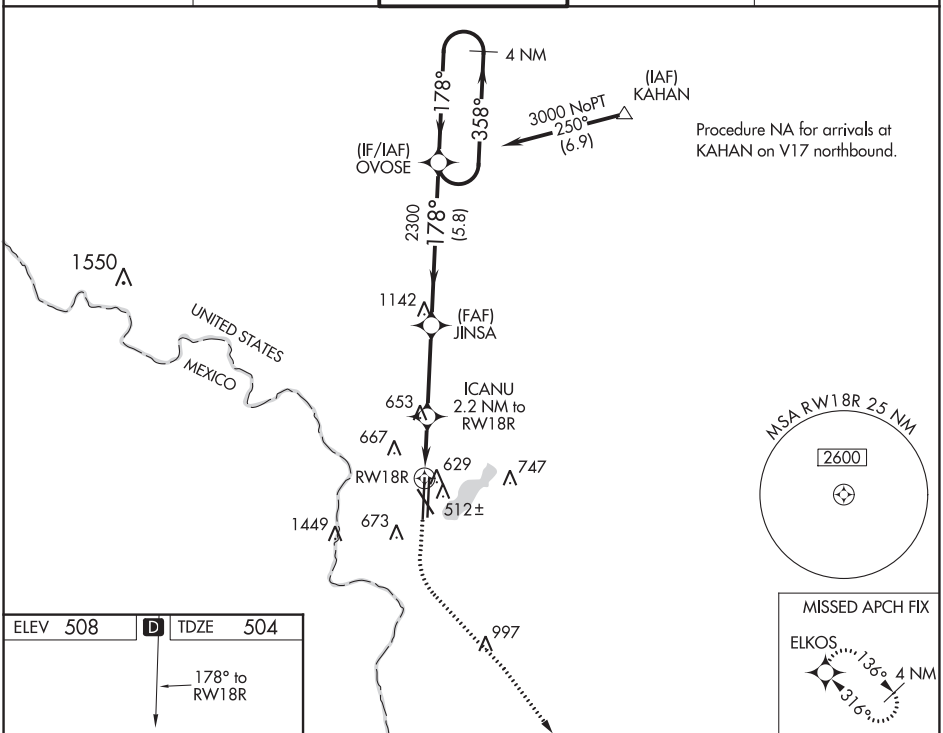
RNAV (GPS) RWY 18R
LAREDO INTL (LRD)

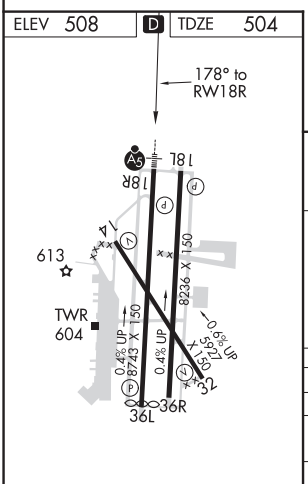
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA West of Rwys 14 and 36L. DME/DME RNP-0.3 NA. For inop ALS, increase LPV Cat E visibility to ¾ SM, LNAV/VNAV all Cats visibility to ⅞ SM, and LNAV Cats C/D/E to 1 SM.

MALSR

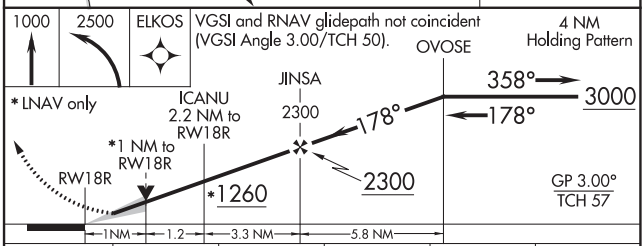
MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct ELKOS and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER*	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) L 257.9	121.8	122.95





MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R



CATEGORY	A	B	C	D	E
LPV DA	704-½ 200 (200-½)				
LNAV/VNAV DA	810-½ 306 (400-½)				
LNAV MDA	880-½ 376 (400-½)		880-⅝ 376 (400-⅝)		
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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AL-226 (FAA)

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RNAV (GPS) RWY 32

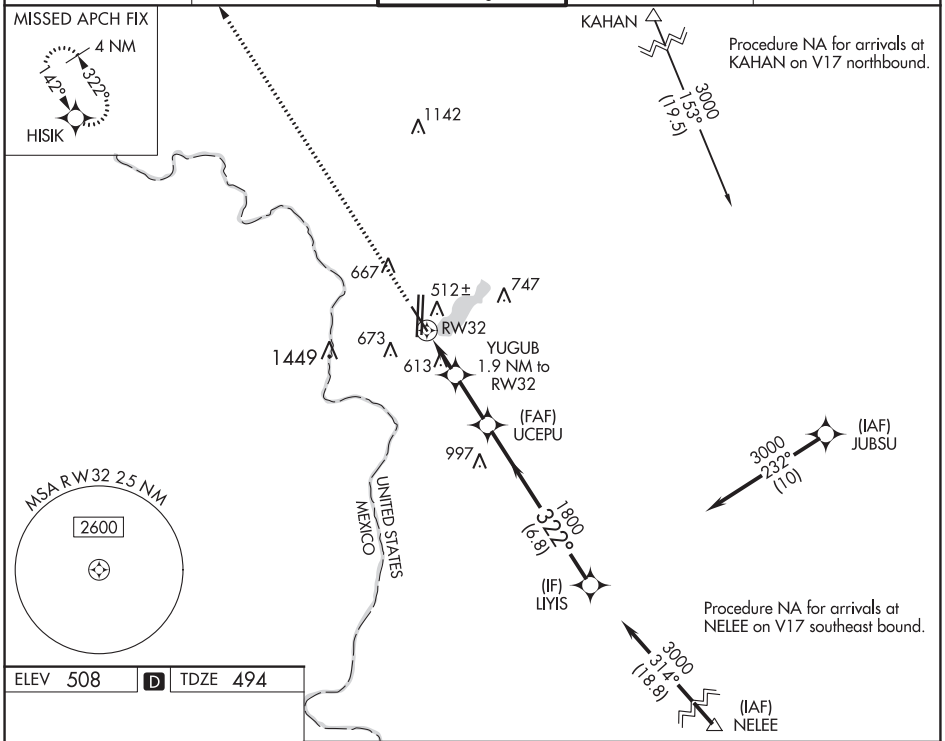
LAREDO INTL (LRD)

WAAS CH 86633 W32A	APP CRS 322°	Rwy ldg 5927 TDZE 494 Apt Elev 508

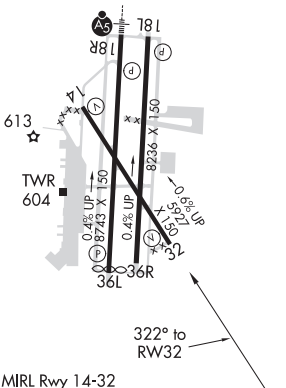
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA west of Rwys 14 and 36L. Rwy 32 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct HISIK and hold.

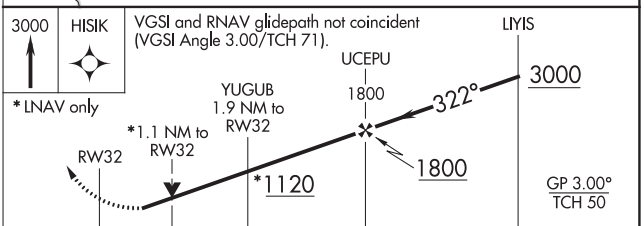
ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) 257.9	121.8	122.95



ELEV 508 | D | TDZE 494



MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R



CATEGORY	A	B	C	D	E
LPV DA	744-¾ 250 (300-¾)				
LNAV/VNAV DA	826-1 332 (400-1)				
LNAV MDA	880-1 386 (400-1)		880-1⅛ 386 (400-1⅛)		
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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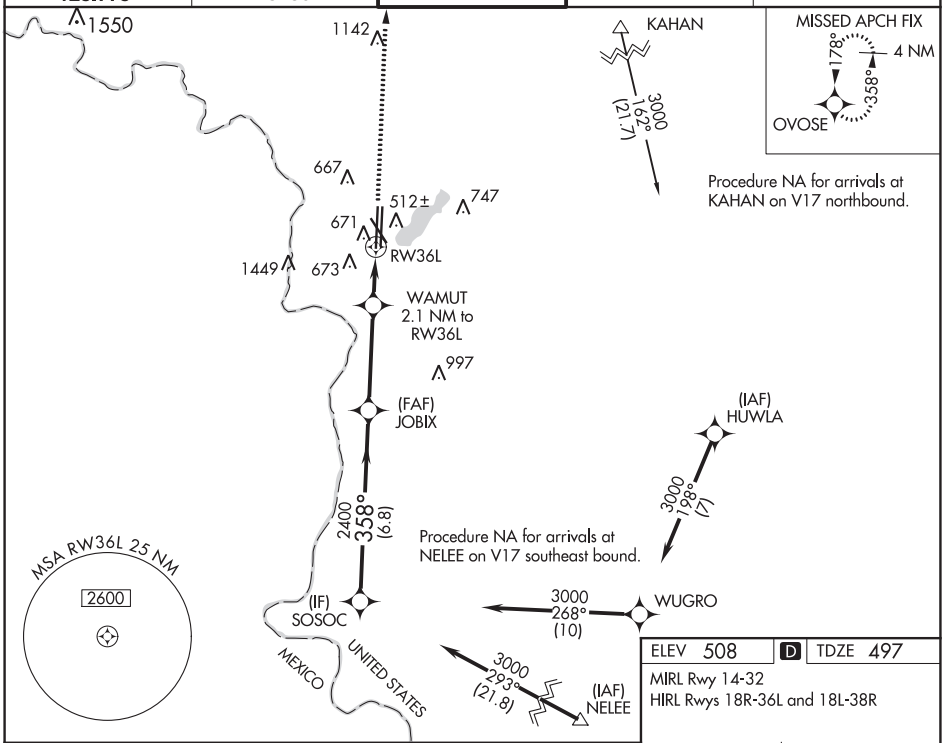
WAAS CH 77933 W36A	APP CRS 358°	Rwy ldg 8623 TDZE 497 Apt Elev 508

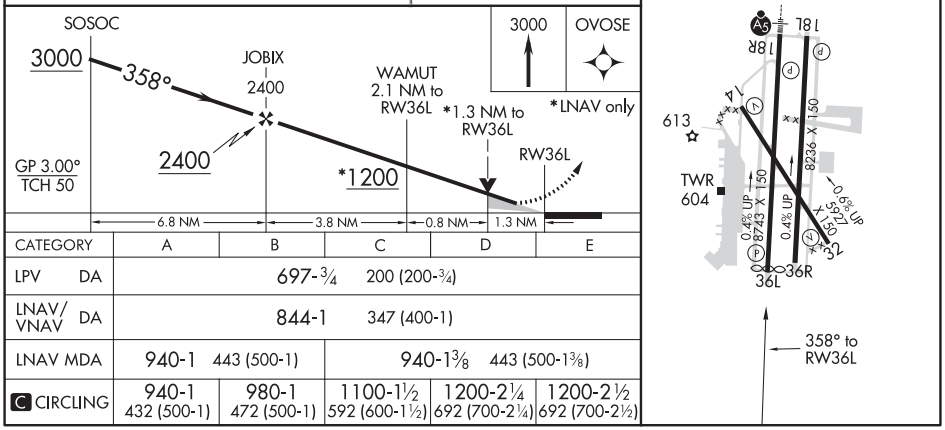
RNAV (GPS) RWY 36L
LAREDO INTL (LRD)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA west of Rwys 14 and 36L. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct OVOSE and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) 257.9	121.8	122.95





CATEGORY	A	B	C	D	E
LPV DA	697-¾ 200 (200-¾)				
LNAV/VNAV DA	844-1 347 (400-1)				
LNAV MDA	940-1 443 (500-1)		940-1⅜ 443 (500-1⅜)		
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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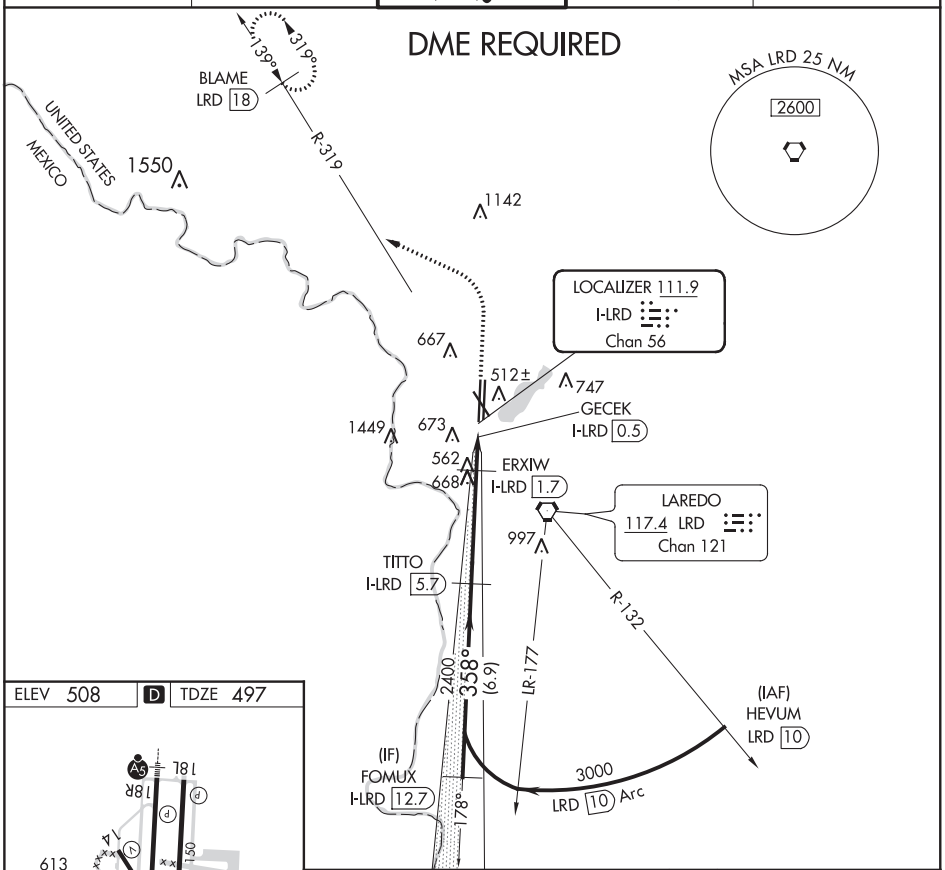
LOC BC RWY 36L
LAREDO INTL (LRD)

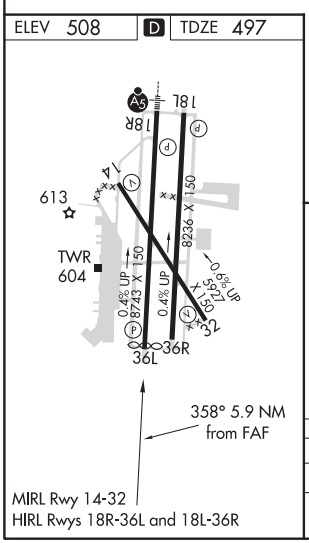
LOC/DME I-LRD	APP CRS	Rwy ldg	8623
111.9	358°	TDZE	497
Chan 56		Apt Elev	508

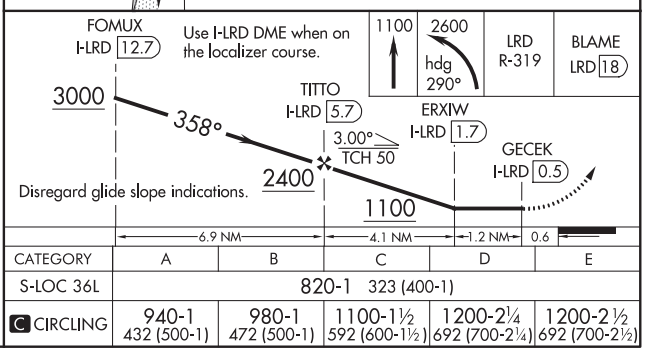
Circling NA west of Rwys 14 and 36L.
DME required.

MISSED APPROACH: Climb to 1100 then climbing left turn to 2600 on heading 290° and on LRD VORTAC R-319 to BLAME/LRD 18 DME and hold.

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1(CTAF) 257.9	121.8	122.95







CATEGORY	A	B	C	D	E
S-LOC 36L	820-1 323 (400-1)				
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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VORTAC LRD 117.4 Chan 121	APP CRS 139°	Rwy ldg 5927 TDZE 508 Apt Elev 508

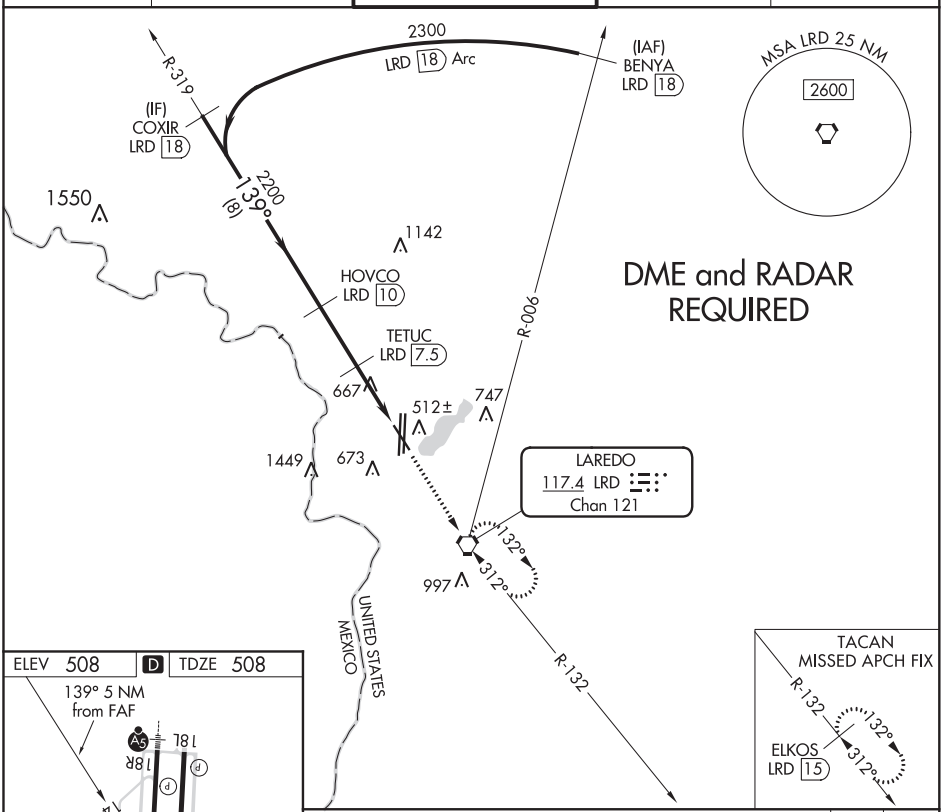
VOR or TACAN RWY 14

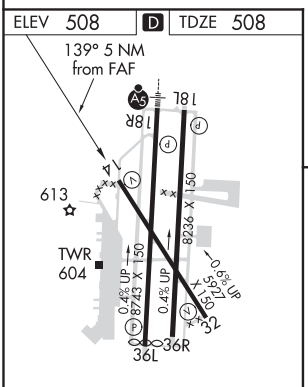
LAREDO INTL (LRD)

Circling NA west of Rwys 14 and 36L. DME required.

MISSED APPROACH: Climb to 2500 direct LRD VORTAC and hold, continue climb-in-hold to 2500 (TACAN aircraft continue on LRD VORTAC R-132 to ELKOS/15 DME and hold SE, right turn, 312° inbound).

ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1 (CTAF) L 257.9	121.8	122.95





MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R

CATEGORY	A	B	C	D	E
S-14	920-1 412 (500-1)		920-1¼ 412 (500-1¼)		920-1½ 412 (500-1½)
C CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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LAREDO, TEXAS

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VOR or TACAN RWY 32

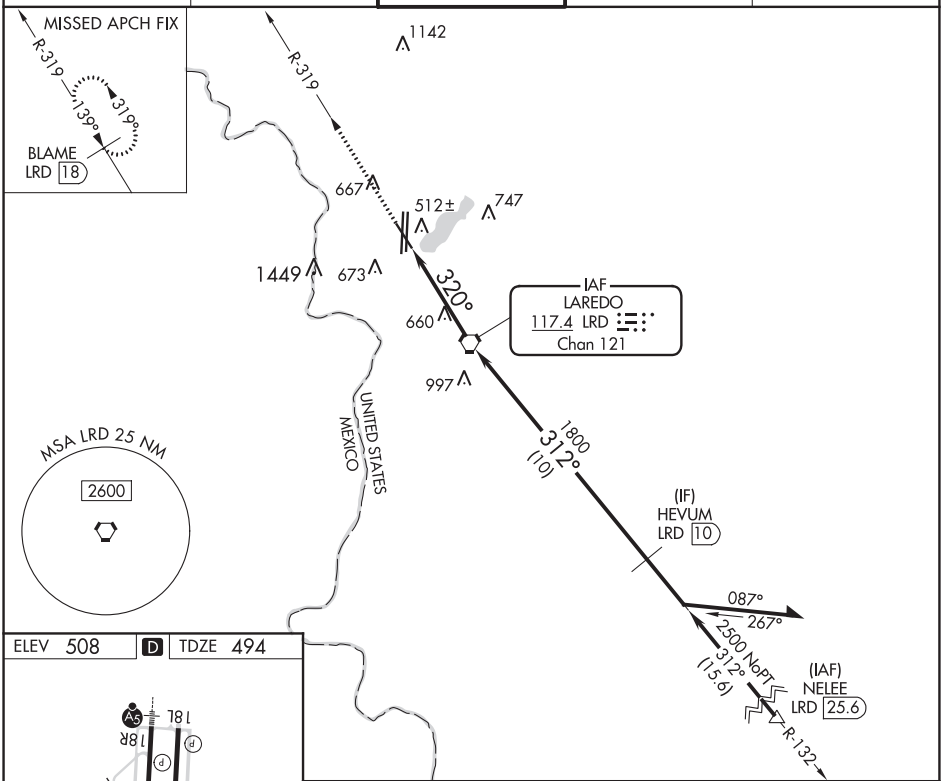
LAREDO INTL (LRD)

VORTAC LRD 117.4 Chan 121	APP CRS 320°	Rwy ldg 5927 TDZE 494 Apt Elev 508

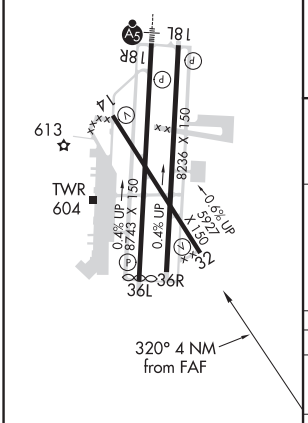
Circling NA west of Rwys 14 and 36L. Rwy 32 helicopter visibility reduction below ¾ SM NA. DME required.

MISSED APPROACH: Climb to 2600 on LRD VORTAC R-319 to BLAME/LRD 18 DME and hold.

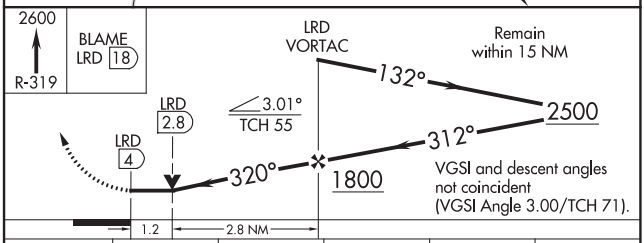
ATIS	HOUSTON CENTER	LAREDO TOWER ★	GND CON	UNICOM
125.775	127.8 307.2	120.1 (CTAF) (L) 257.9	121.8	122.95



ELEV 508 | D | TDZE 494



MIRL Rwy 14-32
HIRL Rwys 18R-36L and 18L-36R



CATEGORY	A	B	C	D	E
S-32	920-1 426 (500-1)		920-1¼ 426 (500-1¼)		
(C) CIRCLING	940-1 432 (500-1)	980-1 472 (500-1)	1100-1½ 592 (600-1½)	1200-2¼ 692 (700-2¼)	1200-2½ 692 (700-2½)

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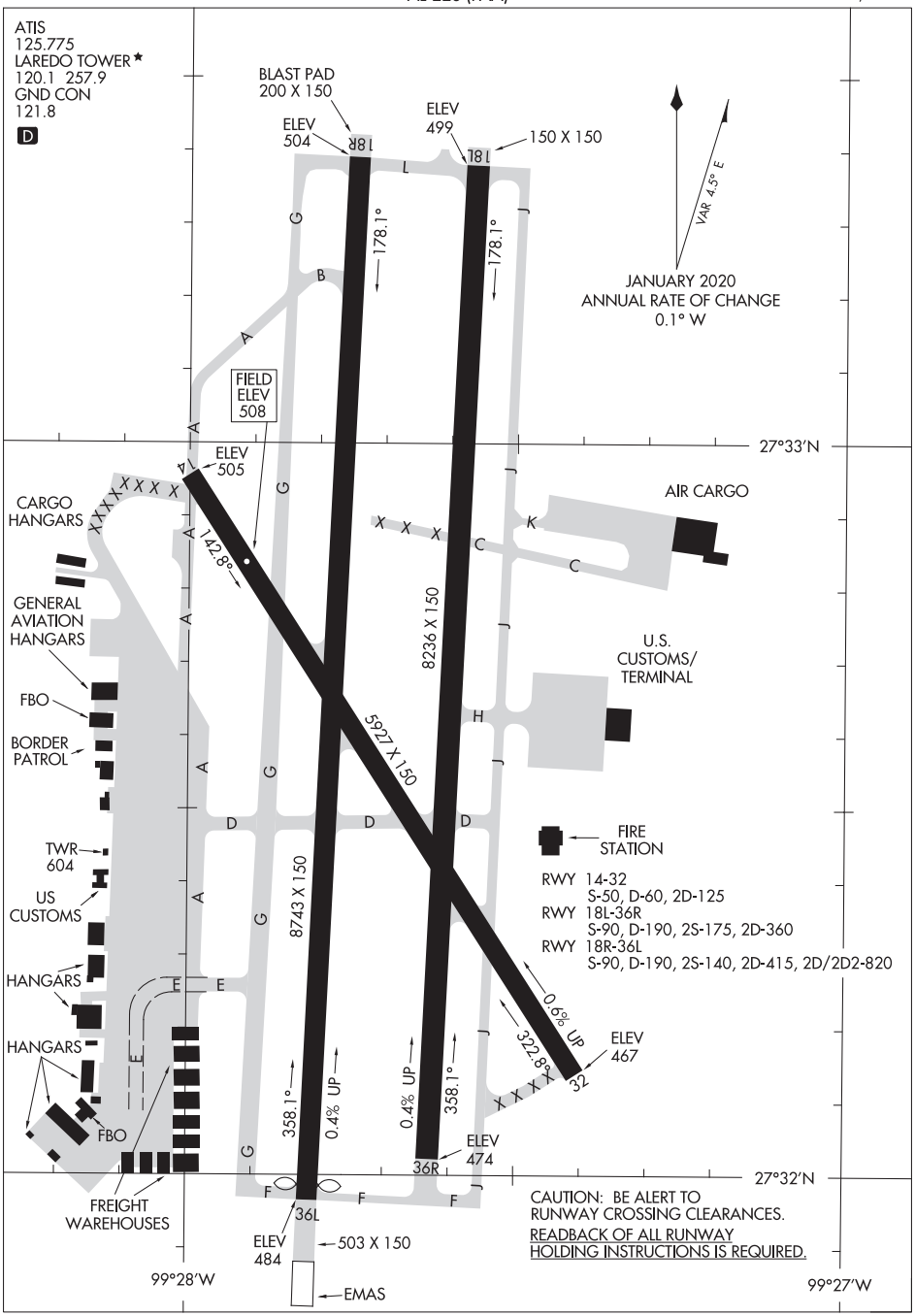

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DEL RIO, TEXAS

20030

ILS or LOC/DME RWY 13C

AL-111 [USAF] LAUGHLIN AFB (KDLF)

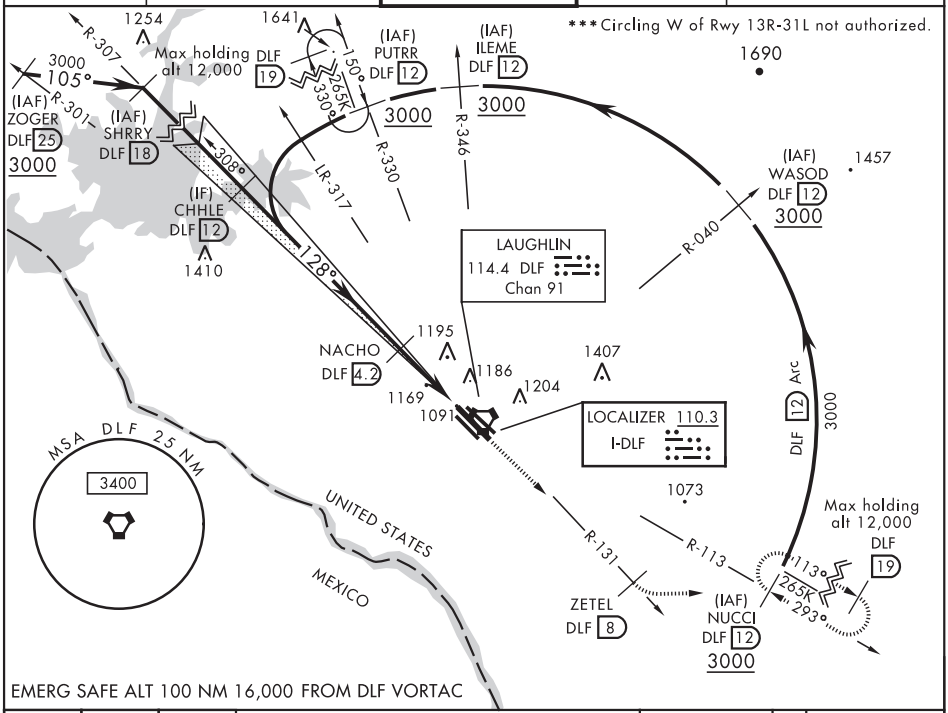
LOC I-DLF	APCH CRS	Rwy ldg 13C 8852 13L 8315 TDZE 13C 1081 13L 1078 Arpt Elev 1081
110.3	128°	

* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 50 and vis to 1 mile.

ALSF-1

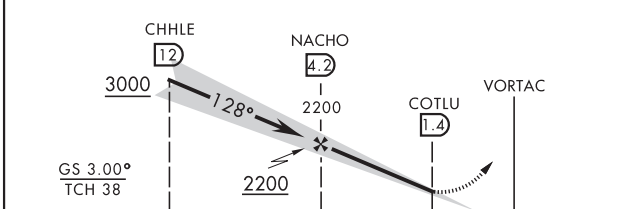
MISSED APPROACH: Climb to 3000 on DLF VORTAC R-131 to 8 DME (ZETEL), then turn left to intercept DLF R-113 to 12 DME (NUCCI) and hold.

ATIS ★	DEL RIO APP CON	LAUGHLIN TOWER ★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8



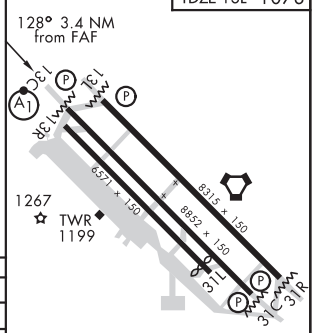
EMERG SAFE ALT 100 NM 16,000 FROM DLF VORTAC

3000 DLF R-131	ZETEL DLF 8	NUCCI R-113 DLF 12



ELEV 1081

TDZE 13C 1081
TDZE 13L 1078



CATEGORY	A	B	C	D	E
S-ILS 13C *	1281/24 200 (200-½)				
S-LOC 13C**	1420/24 339 (400-½)		1420/26 339 (400-½)		
SIDESTEP 13L	1440-1 362 (400-1)				
C CIRCLING ***	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619(700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

Rwy 31L ldg 6241'
MIRL Rwy 13R-31L
HIRL Rwy 13C-31C, 13L-31R

DEL RIO, TEXAS 29°22'N-100°47'W LAUGHLIN AFB (KDLF)

Amdt 4 19JUL18

ILS or LOC/DME RWY 13C

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DEL RIO, TEXAS

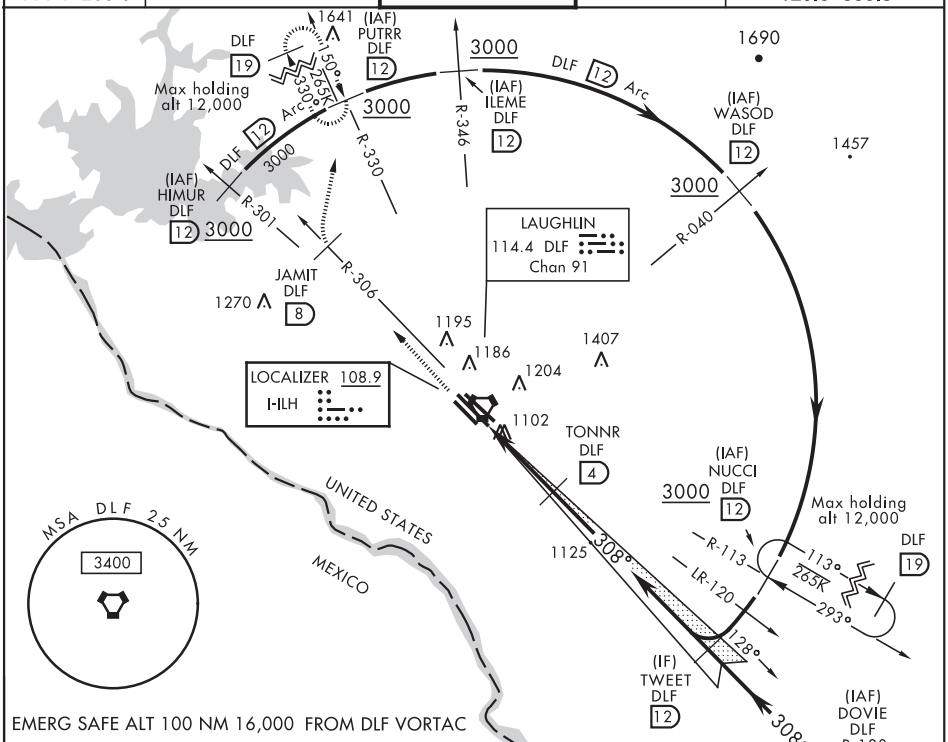
ILS or LOC/DME RWY 31C

LOC I-ILH 108.9	APCH CRS 308°	Rwy ldg 31C 8852 31R 8315 TDZE 31C 1078 31R 1077 Arpt Elev 1081	AL-111 [USAF] LAUGHLIN AFB (KDLF)

* Circling W of Rwy 13R-31L not authorized.

MISSED APPROACH: Climb to 3000 on DLF VORTAC R-306 to 8 DME (JAMIT), then turn right to intercept DLF R-330 to 12 DME (PUTRR) and hold.

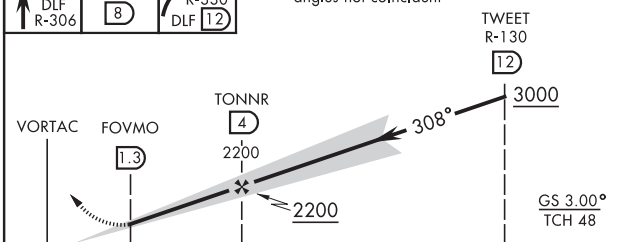
ATIS ★	DEL RIO APP CON	LAUGHLIN TOWER ★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8



EMERG SAFE ALT 100 NM 16,000 FROM DLF VORTAC

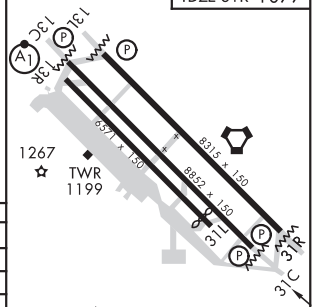
3000 DLF R-306	JAMIT DLF 8	PUTRR R-330 DLF 12

VGSI and descent angles not coincident



ELEV 1081

TDZE 31C 1078
TDZE 31R 1077



Rwy 31L ldg 6241'
MIRL Rwy 13R-31L
HIRL Rwy 13C-31C, 13L-31R

308° 3.4 NM from FAF

CATEGORY	A	B	C	D	E
S-ILS 31C	1328-⅞ 250 (300-⅞)				
S-LOC 31C	1380-1 302 (300-1)		1380-⅞ 302 (300-⅞)		
SIDESTEP 31R	1380-1 303 (300-1)		1380-⅞ 303 (300-⅞)		
C CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619(700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

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DEL RIO, TEXAS

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RNAV (GPS) RWY 13C

APCH CRS 128°	13C	13L	13R
Rwy ldg	8852	8315	6571
TDZE	1081	1078	1076
Arpt Elev	1081		

AL-111 (USAF)

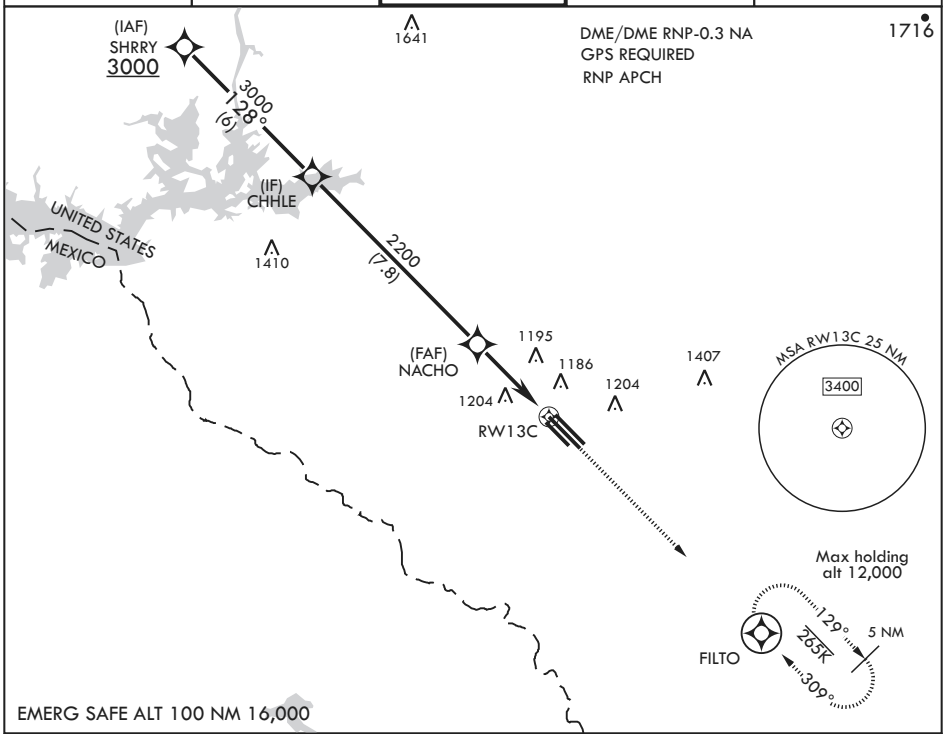
LAUGHLIN AFB (KDLF)

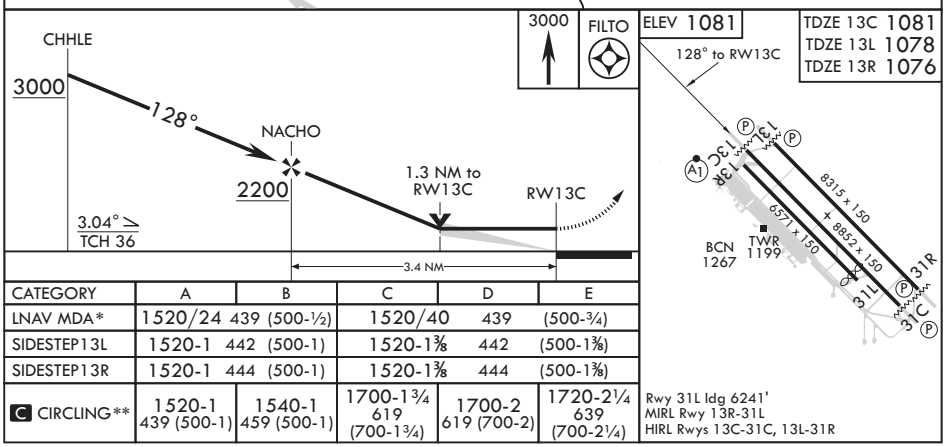
* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1 1/4 miles.
** Circling SW of Rwy 13R-31L not authorized.

Rwy 13C ALSF-1

MISSED APPROACH: Climb to 3000 direct FILTO and hold.

ATIS★	DEL RIO APP CON	TOWER★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8





CATEGORY	A	B	C	D	E
LNAV MDA*	1520/24 439 (500-½)		1520/40	439	(500-¾)
SIDESTEP13L	1520-1 442 (500-1)		1520-1⅜	442	(500-1⅜)
SIDESTEP13R	1520-1 444 (500-1)		1520-1⅜	444	(500-1⅜)
C CIRCLING**	1520-1 439 (500-1)	1540-1 459 (500-1)	1700-1¾ 619 (700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

Rwy 31L ldg 6241'
MIRL Rwy 13R-31L
HIRL Rwys 13C-31C, 13L-31R

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RNAV (GPS) RWY 31C

AL-111 (USAF)

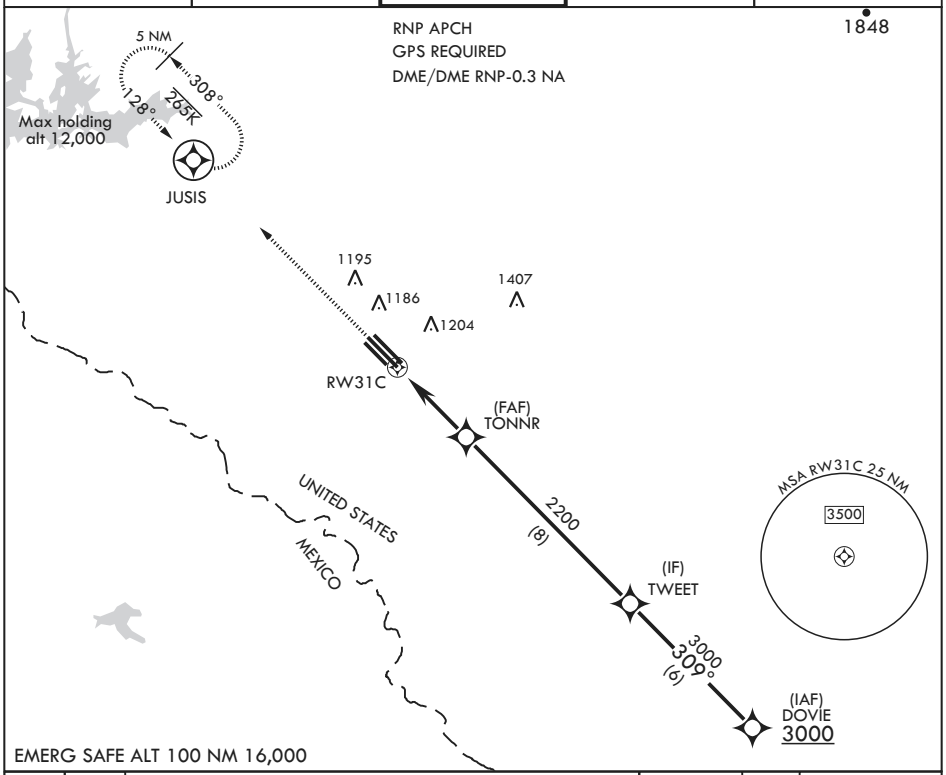
LAUGHLIN AFB (KDLF)

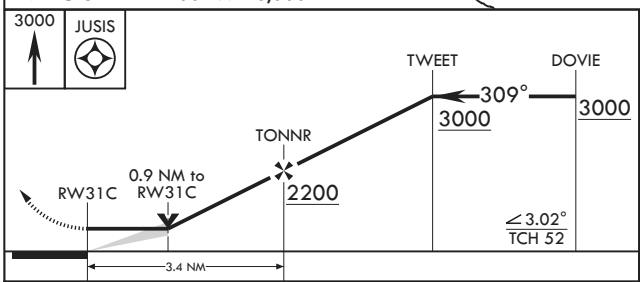
APCH CRS 309°	31C	31L	31R
Rwy ldg	8852	6241	8315
TDZE	1078	1079	1077
Arpt Elev	1081		

* Circling not authorized SW of Rwy 13R-31L

MISSED APPROACH: Climb to 3000 direct JUSIS and hold.

ATIS★	DEL RIO APP CON	TOWER★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8

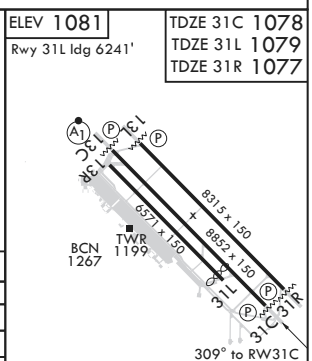




ELEV 1081

Rwy 31L ldg 6241'

TDZE 31C 1078
TDZE 31L 1079
TDZE 31R 1077



CATEGORY	A	B	C	D	E
LNAV MDA	1420-1		342	(400-1)	
SIDESTEP31L	1420-1		341	(400-1)	
SIDESTEP31R	1420-1		343	(400-1)	
C CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619 (700-1¾)	1700-2 619 (700-2)	1720-2¼ 639 (700-2¼)

MIRL Rwy 13R-31L
HIRL Rwys 13C-31C, 13L-31R

SC-3, 25 FEB 2021 to 22 APR 2021

19115

DEL RIO, TEXAS

RNAV (GPS) B

APCH CRS 340°	Rwy ldg N/A TDZE N/A Arpt Elev 1081

AL-111 (USAF)

LAUGHLIN AFB (KDLF)

* Circling not authorized in sector NE of Rwy 13R-31L.

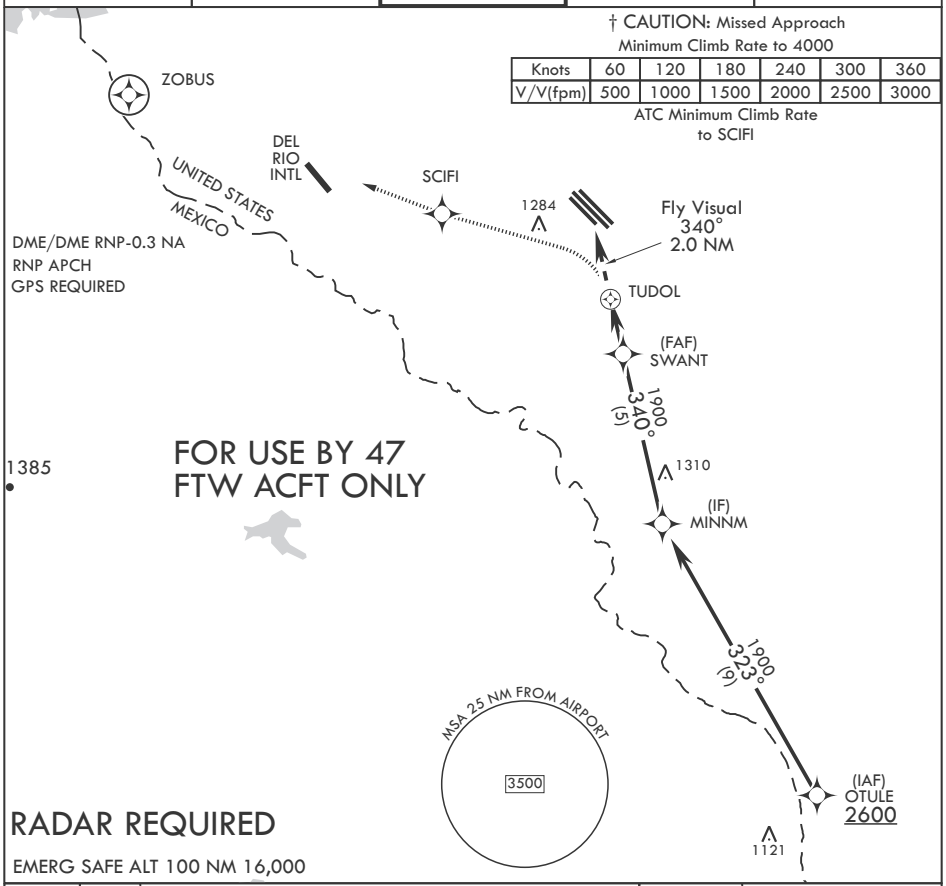
† MISSED APPROACH: Climbing left turn to 4000 direct ZOBUS, cross SCIFI at 4000, expect radar vectors.

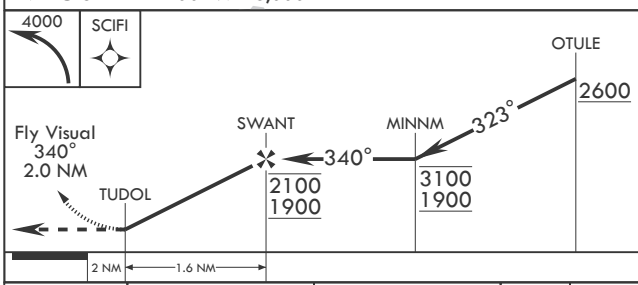
ATIS★	DEL RIO APP CON	TOWER★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8

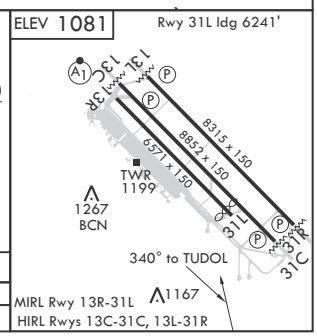
† CAUTION: Missed Approach
Minimum Climb Rate to 4000

Knots	60	120	180	240	300	360
V/V(fpm)	500	1000	1500	2000	2500	3000

ATC Minimum Climb Rate to SCIFI







CATEGORY	A	B	C	D
C CIRCLING*	1600-3	519 (1000-3)	NA	

DEL RIO, TEXAS

29°22'N - 100°47'W

LAUGHLIN AFB (KDLF)

Amdt 5 11OCT18

RNAV (GPS) B

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

VOR/DME RWY 13C

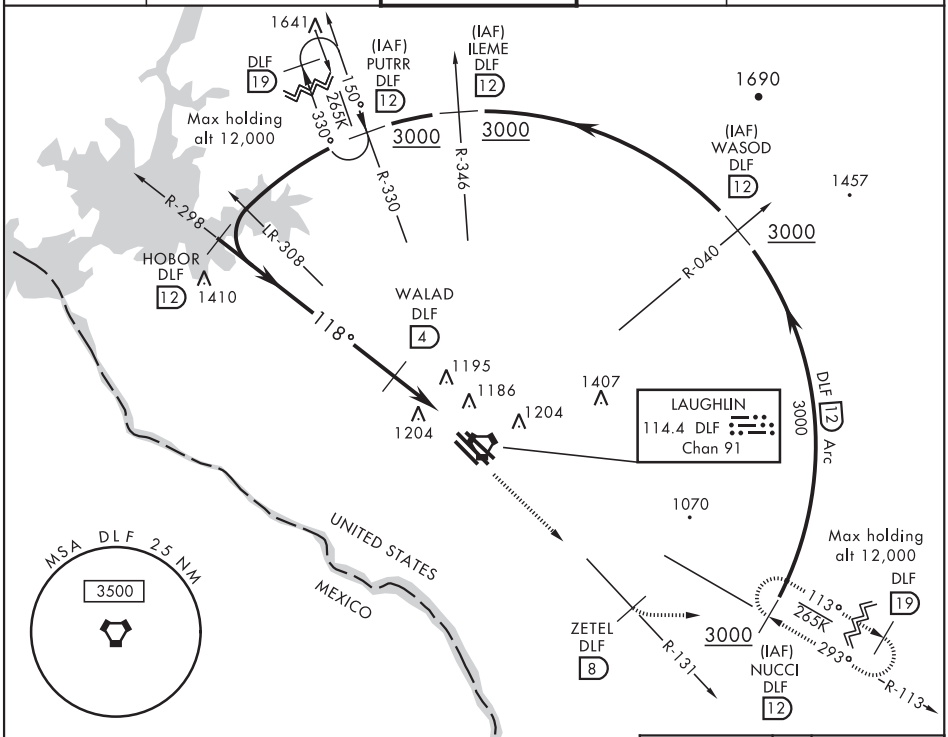
VORTAC DLF 114.4 Chan 91	APCH CRS 118°	Rwy ldg 8852 TDZE 1081 Arpt Elev 1081	AL-111 [USAF]	LAUGHLIN AFB (KDLF)

T* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1⅛ miles.
** Circling not authorized in sector SW of Rwy 13R-31L.

ALSF-1

MISSED APPROACH: Climb to 3000 on DLF VORTAC R-131 to 8 DME (ZETEL), then turn left to intcp DLF R-113 to 12 DME (NUCCI) and hold.

ATIS ★	DEL RIO APP CON	LAUGHLIN TOWER ★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8

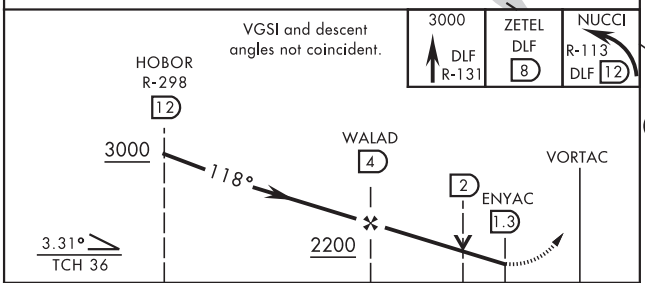


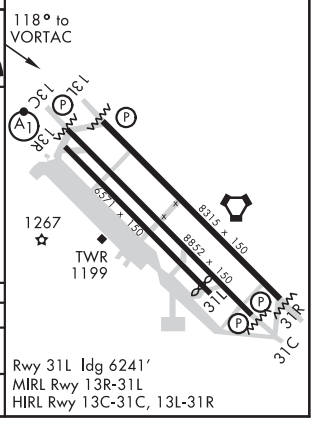
EMERG SAFE ALT 100 NM 16,000 FROM DLF VORTAC

ELEV 1081	TDZE 1081

VGSI and descent angles not coincident.

3000 DLF R-131	ZETEL DLF 8	NUCCI R-113 DLF 12





Rwy 31L ldg 6241′
MIRL Rwy 13R-31L
HIRL Rwy 13C-31C, 13L-31R

CATEGORY	A	B	C	D	E
S-13C *	1480/24 399 (400-½)		1480/40	399 (400-¾)	
C CIRCLING**	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619(700-1¾)	1700-2 619 (700-2)	1720-2¼ 639(700-2¼)

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

DEL RIO, TEXAS

VOR/DME RWY 31C

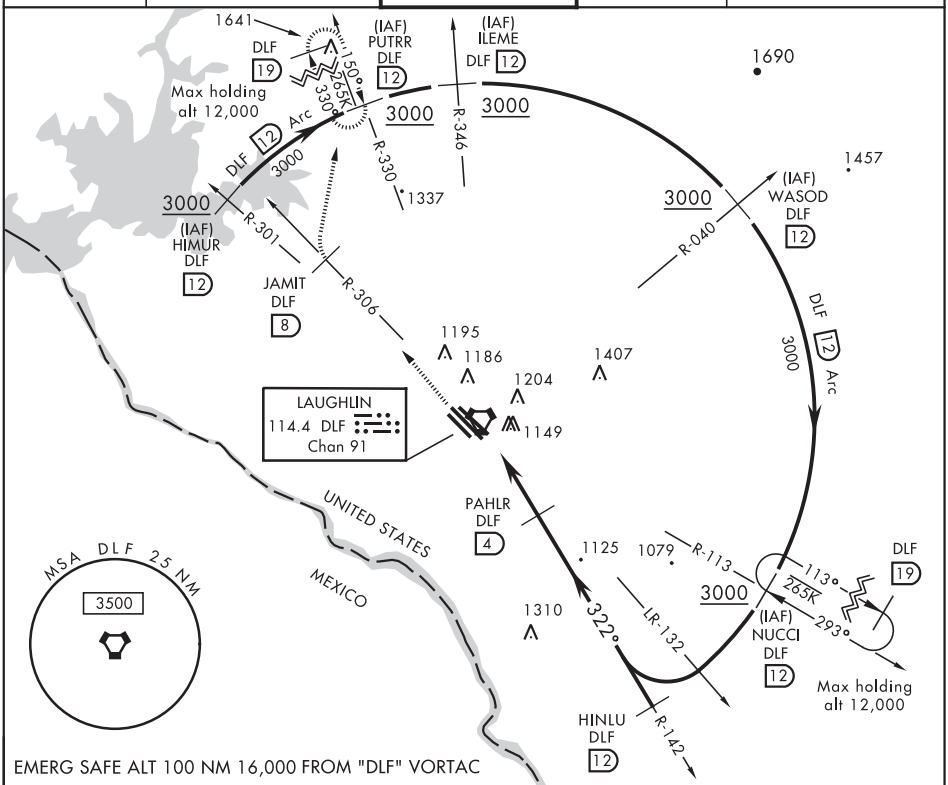
VORTAC DLF 114.4 Chan 91	APCH CRS 322°	Rwy ldg 8852 TDZE 1078 Arpt Elev 1081

AL-111 [USAF] LAUGHLIN AFB (KDLF)

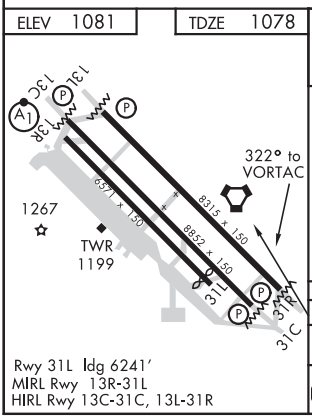
*Circling not authorized in sector SW of Rwy 13R-31L.

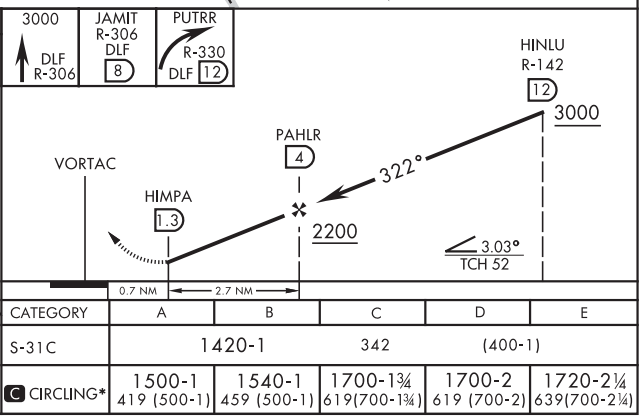
MISSED APPROACH: Climb to 3000 on DLF VORTAC R-306 to 8 DME (JAMIT), then turn right to intercept DLF R-330 to 12 DME (PUTRR), and hold.

ATIS ★	DEL RIO APP CON	LAUGHLIN TOWER ★	GND CON	CLNC DEL
114.4 269.9	119.6 259.1	125.2 307.375	275.8	120.5 335.8



ELEV 1081 TDZE 1078





CATEGORY	A	B	C	D	E
S-31C	1420-1		342	(400-1)	
C CIRCLING*	1500-1 419 (500-1)	1540-1 459 (500-1)	1700-1¾ 619(700-1¾)	1700-2 619 (700-2)	1720-2¼ 639(700-2¼)

Rwy 31L ldg 6241'
MIRL Rwy 13R-31L
HIRL Rwy 13C-31C, 13L-31R

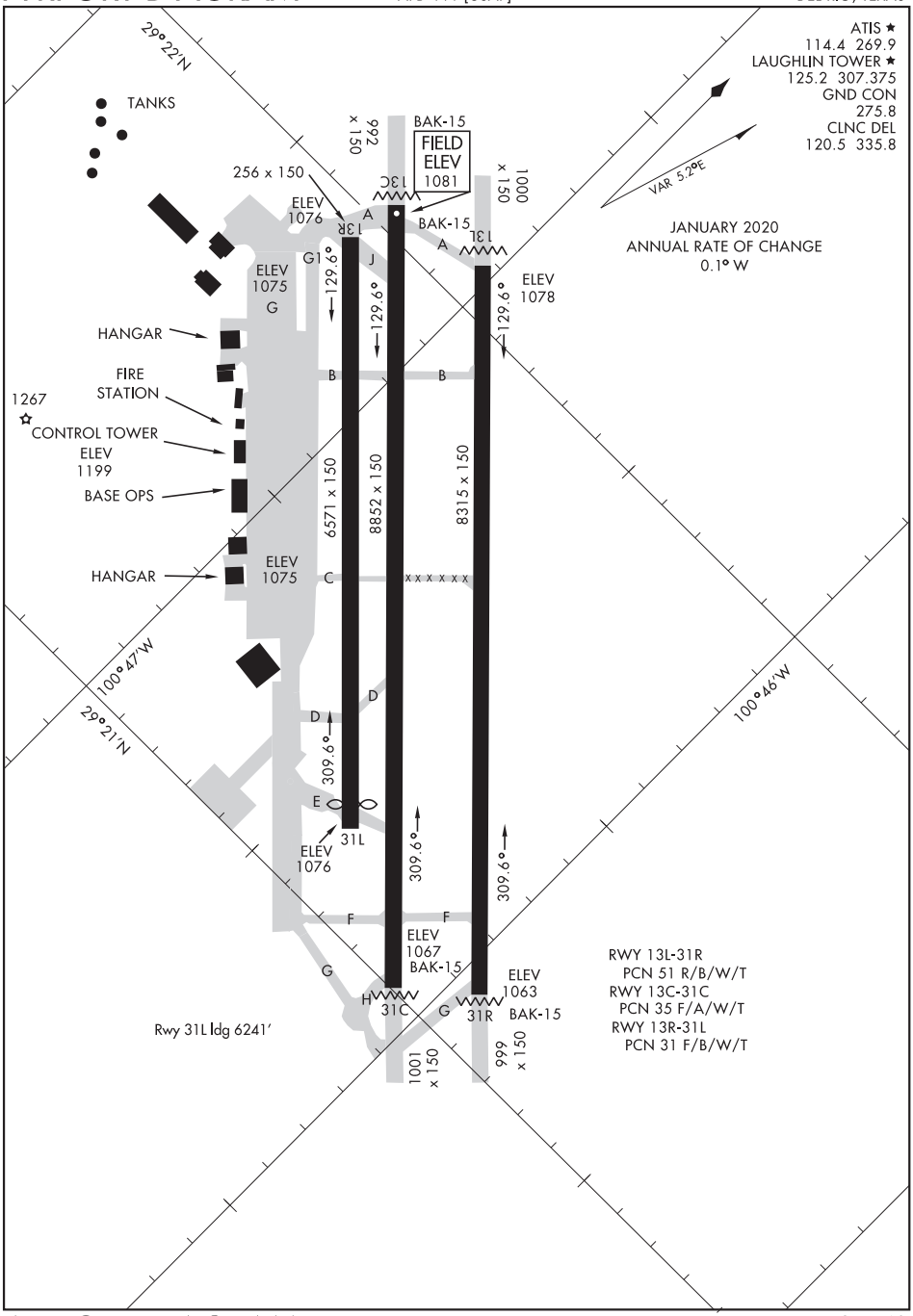
SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM

LAUGHLIN AFB (KDLF)

AFD-111 [USAF]

DEL RIO, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM

DEL RIO, TEXAS

LAUGHLIN AFB (KDLF)

11181

HINKO ONE DEPARTURE (HINKO1 • HINKO)

SHL-111 [USAF]

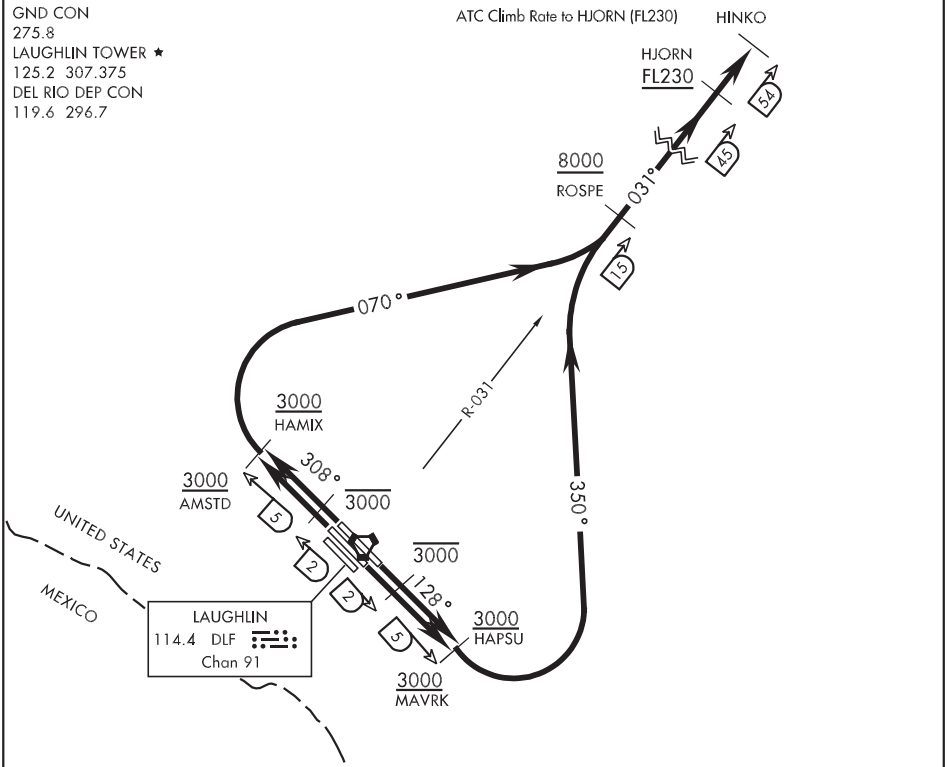
LAUGHLIN AFB (KDLF)
DEL RIO, TEXAS

ATIS ★ 114.4 269.9
CLNC DEL
120.5 335.8
GND CON
275.8
LAUGHLIN TOWER ★
125.2 307.375
DEL RIO DEP CON
119.6 296.7

2216

Rwy	Knots	60	120	180	240	300	360
13C/L	V/V(fpm)	450	900	1340	1790	2230	2680
31C/R	V/V(fpm)	460	920	1380	1840	2300	2760

ATC Climb Rate to HJORN (FL230)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 13C: Climb on track 128°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-132/5 DME (MAVRK) at or above 3000. Then turn left and track 350° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 13L: Climb on track 128°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-130/5 DME (HAPSU) at or above 3000. Then turn left and track 350° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 31C: Climb on track 308°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-305/5 DME (AMSTD) at or above 3000. Then turn right and track 070° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

TAKE-OFF RWY 31R: Climb on track 308°, cross DLF VORTAC 2 DME at or below 3000, cross DLF R-307/5 DME (HAMIX) at or above 3000. Then turn right and track 070° to intercept the DLF R-031 prior to ROSPE, cross ROSPE at or above 8000, cross HJORN at or above FL230, then direct HINKO.

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SC-3, 25 FEB 2021 to 22 APR 2021

LAUGHLIN ONE DEPARTURE (DLF1 • DLF)

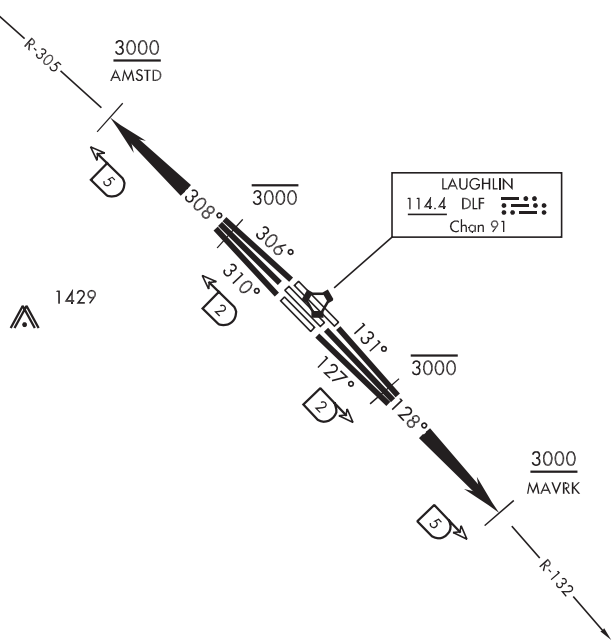
SHL-111 [USAF]

LAUGHLIN AFB (KDLF)
DEL RIO, TEXAS

ATIS ★ 114.4 269.9
CLNC DEL
120.5 335.8
GND CON
275.8
LAUGHLIN TOWER ★
125.2 307.375
DEL RIO DEP CON
119.6 296.7

Rwy	Knots	60	120	180	240	300	360
31C/R ⓐ	V/V(fpm)	470	940	1410	1880	2350	2810
13C ⓐ	V/V(fpm)	440	880	1320	1760	2200	2640
13L ⓐ	V/V(fpm)	450	890	1330	1770	2210	2650
13R ⓐ	V/V(fpm)	410	810	1210	1620	2020	2420

ⓐ ATC Climb Rate to 5 DME



DEPARTURE ROUTE DESCRIPTION

(MAVRK Tracks)

TAKE-OFF RWY 13C: Climb on track 128°, thence. . .

TAKE-OFF RWY 13L: Climb on track 131°, thence. . .

TAKE-OFF RWY 13R: Climb on track 127°, thence. . .

Intercept DLF VORTAC R-132 to DLF 5 DME (MAVRK), cross DLF 2 DME at or below 3000, cross DLF 5 DME (MAVRK) at or above 3000, then as directed by ATC.

(AMSTD Tracks)

TAKE-OFF RWY 31C: Climb on track 308°, thence. . .

TAKE-OFF RWY 31L: Climb on track 310°, thence. . .

TAKE-OFF RWY 31R: Climb on track 306°, thence. . .

Intercept DLF VORTAC R-305 to DLF 5 DME (AMSTD), cross DLF 2 DME at or below 3000, cross DLF 5 DME (AMSTD) at or above 3000, then as directed by ATC.

LAUGHLIN ONE DEPARTURE (DLF1 • DLF)

DEL RIO, TEXAS
LAUGHLIN AFB (KDLF)

SC-3, 25 FEB 2021 to 22 APR 2021

LLANO, TEXAS | AL-5959 (FAA) | 20198

APP CRS	Rwy ldg	4202
174°	TDZE	1102
	Apt Elev	1102

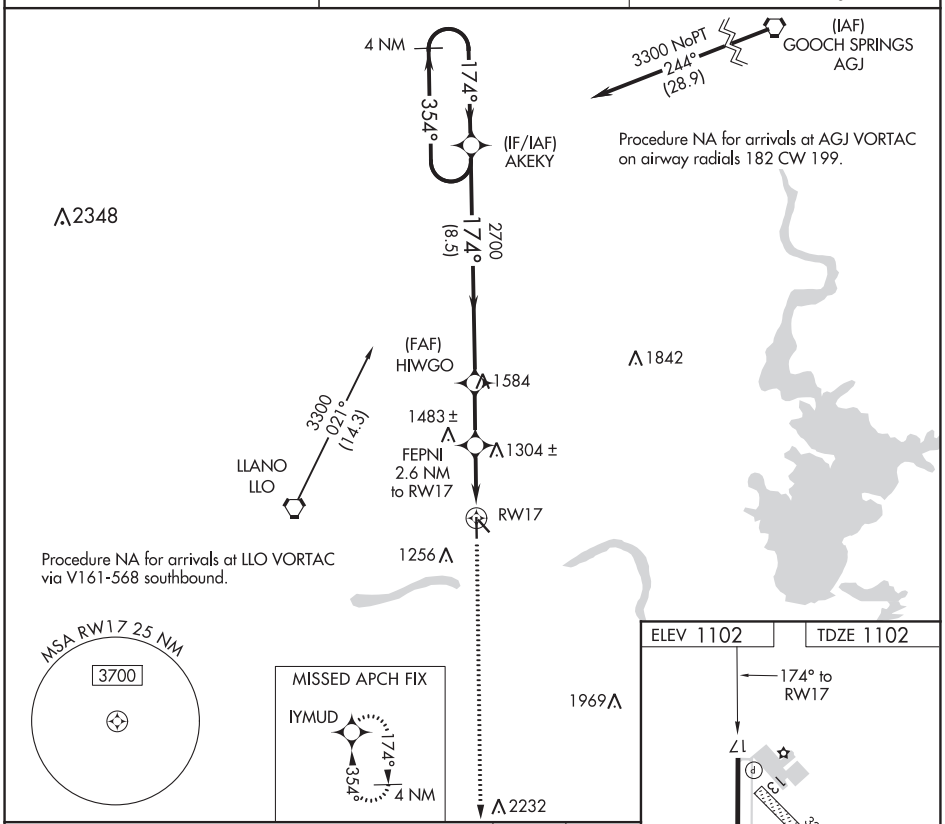
RNAV (GPS) RWY 17
LLANO MUNI (AQO)

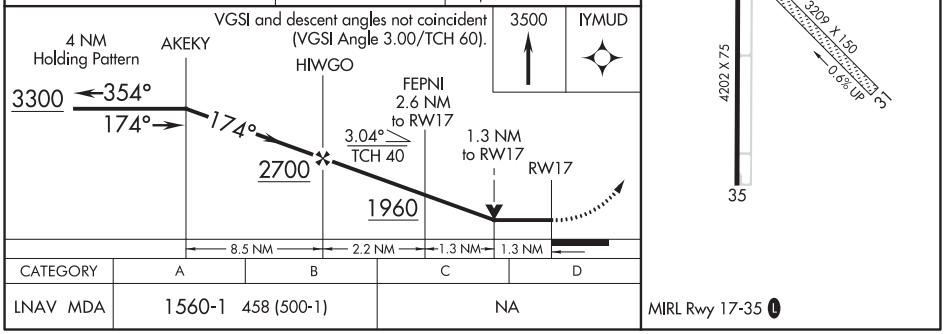
RNP APCH.

When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet. VDP NA when using Burnet altimeter setting. Rwy 17 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3500 direct IYMUD and hold.

AWOS-3	HOUSTON CENTER	UNICOM
119.425	132.35 317.5	123.05 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	1560-1 458 (500-1)		NA	

MIRL Rwy 17-35 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 35
LLANO MUNI (AQO)

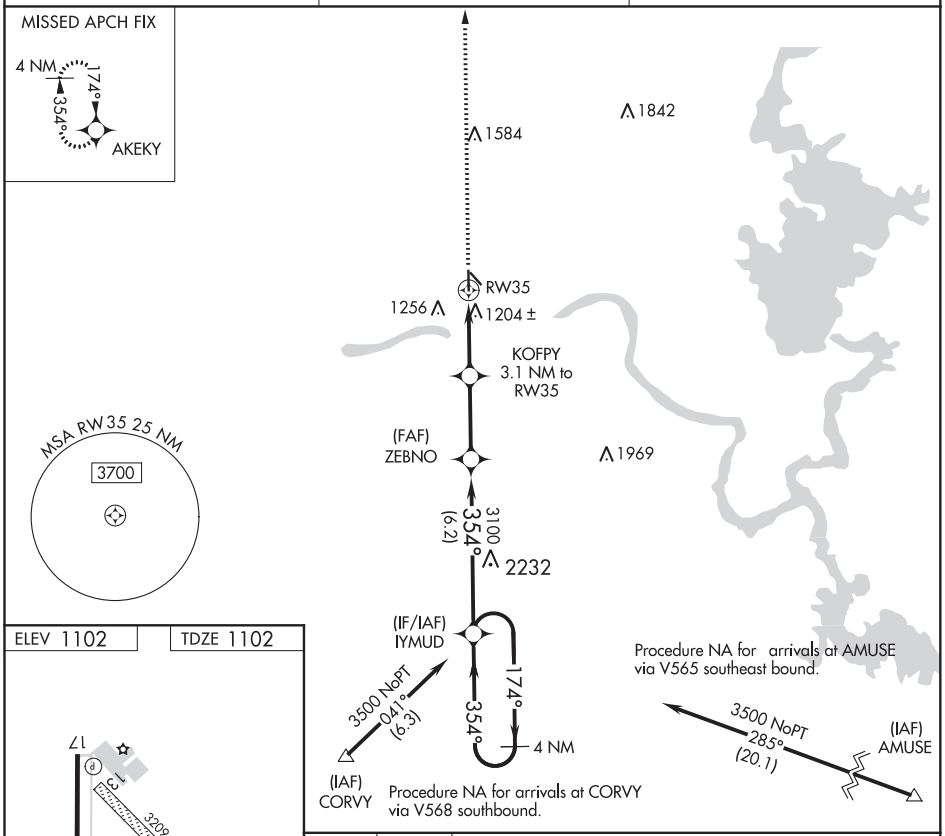
APP CRS	Rwy ldg	4202
354°	TDZE	1102
	Apt Elev	1102

RNP APCH.

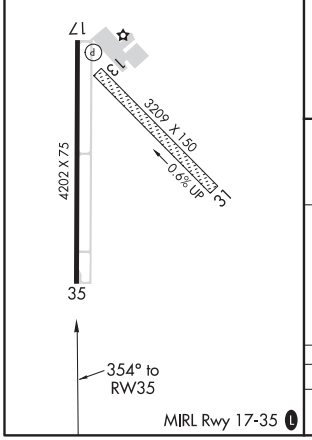
Procedure NA at night. Rwy 35 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 3300 direct AKEKY and hold.

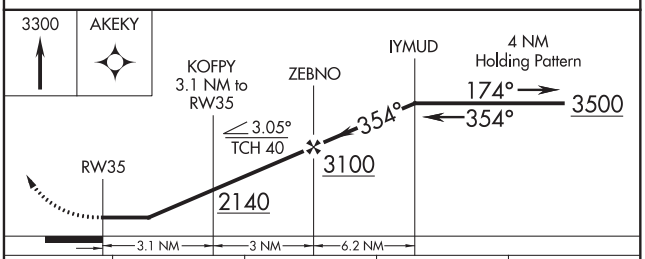
AWOS-3	HOUSTON CENTER	UNICOM
119.425	132.35 317.5	123.05 (CTAF) L



ELEV 1102 TDZE 1102



MIRL Rwy 17-35 L



CATEGORY	A	B	C	D
LNAV MDA	1560-1 458 (500-1)		NA	

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

LLANO, TEXAS

AL-5959 (FAA)

20254

VOR-A

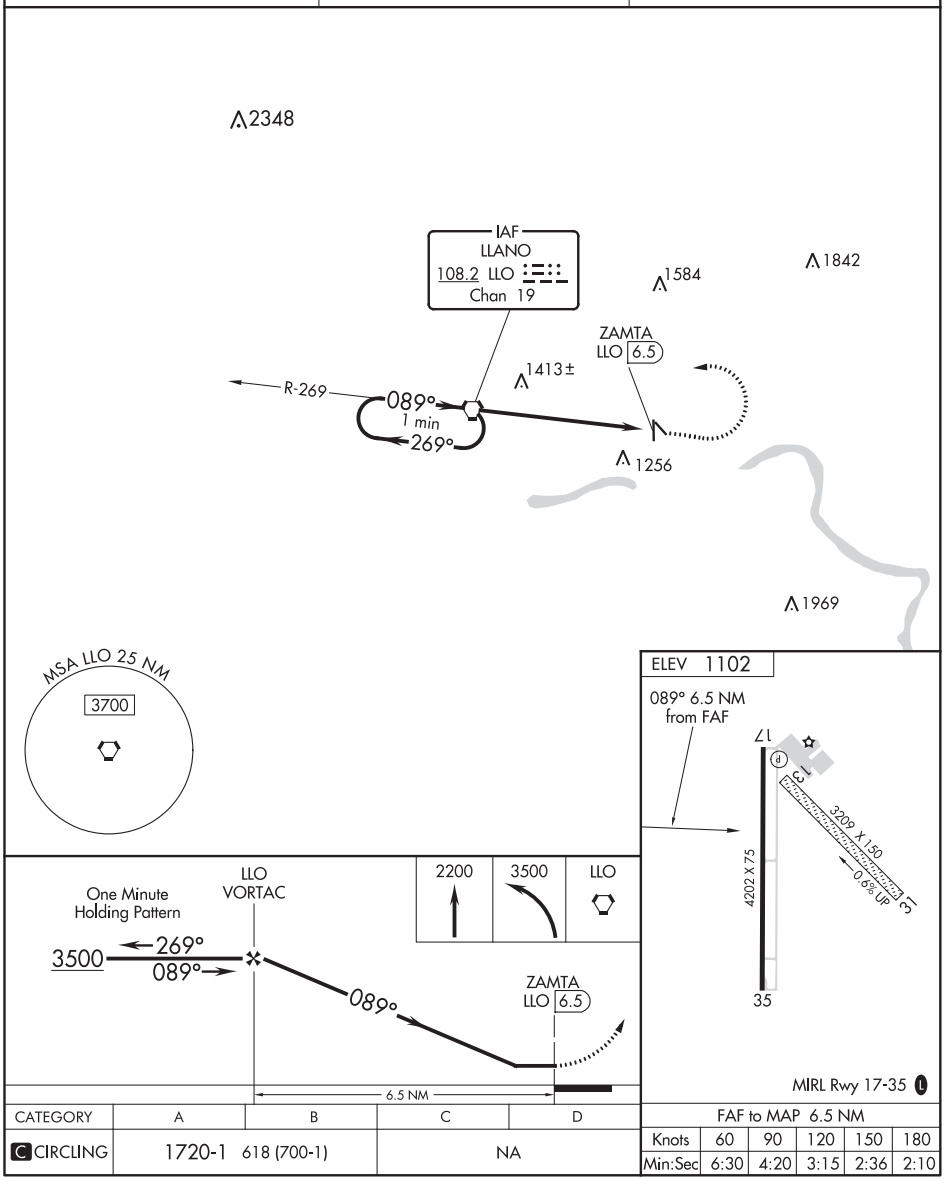
LLANO MUNI (AQO)

VORTAC LLO	APP CRS	Rwy ldg	N/A
108.2	089°	TDZE	N/A
Chan 19		Apt Elev	1102

Circling Rwy 13, 31 NA. Circling Rwy 35 NA at night. When local altimeter setting not received, use Burnet altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2200 then climbing left turn to 3500 direct LLO VORTAC.

AWOS-3	HOUSTON CENTER	UNICOM
119.425	132.35 317.5	123.05 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	1720-1 618 (700-1)		NA	

FAF to MAP 6.5 NM					
Knots	60	90	120	150	180
Min:Sec	6:30	4:20	3:15	2:36	2:10

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 45922 W18A	APP CRS 175°	Rwy ldg 4001 TDZE 532 Apt Elev 532

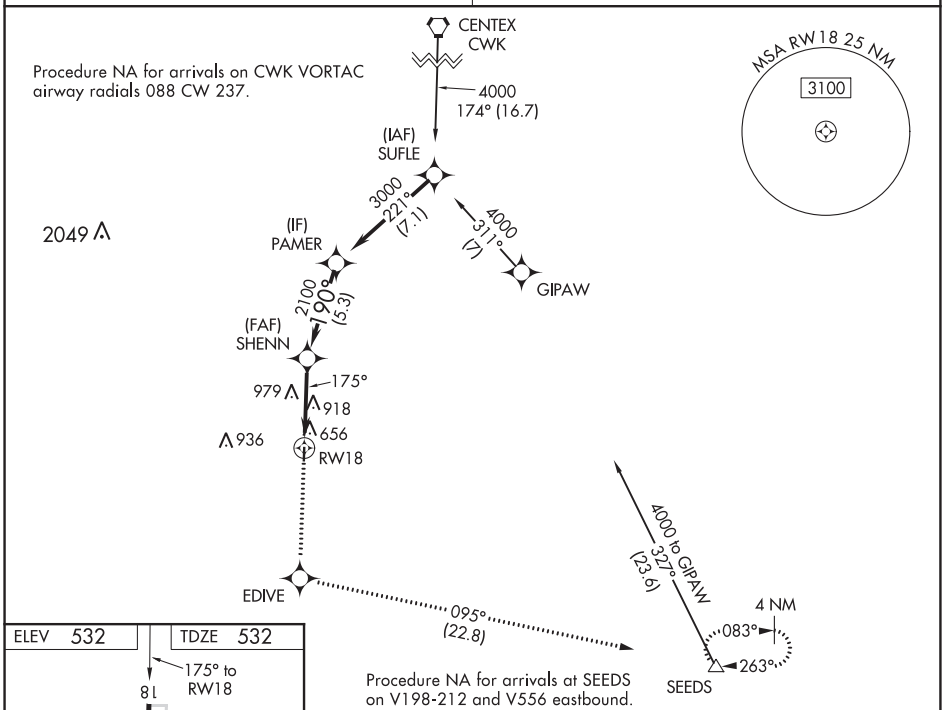
RNAV (GPS) RWY 18
LOCKHART MUNI (5ØR)

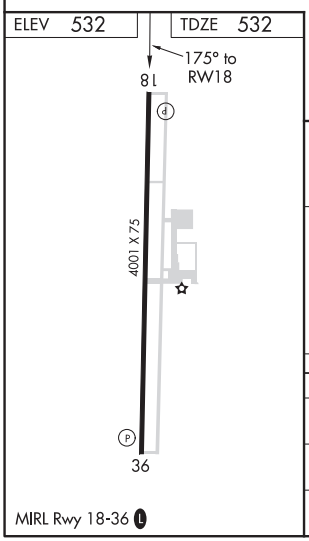
RNP APCH.

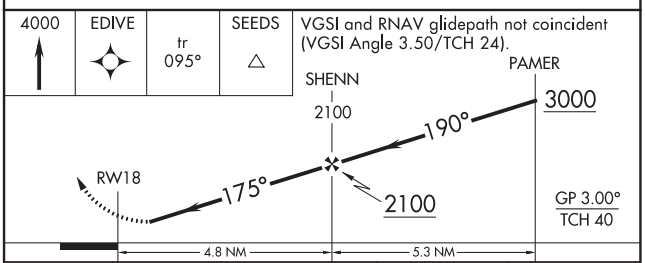
NA Baro-VNAV NA. Use San Marcos altimeter setting, when not received, use Austin-Bergstrom Intl altimeter setting and increase all DA 16 feet, all MDA 20 feet; increase LNAV Cat B visibility ¼ SM.

MISSED APPROACH: Climb to 4000 direct EDIVE and on track 095° to SEEDS and hold.

AUSTIN APP CON	UNICOM
120.875 270.25	122.8 (CTAF) L







CATEGORY	A	B	C	D
LPV DA	815-1 283 (300-1)			NA
LNAV/VNAV DA	883-1¼ 351 (400-1¼)			NA
LNAV MDA	1260-1 728 (800-1)		1260-2 728 (800-2)	NA

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

LOCKHART, TEXAS | AL-6919 (FAA) | 19311

WAAS CH 53323 W36A	APP CRS 355°	Rwy ldg 4001 TDZE 530 Apt Elev 532

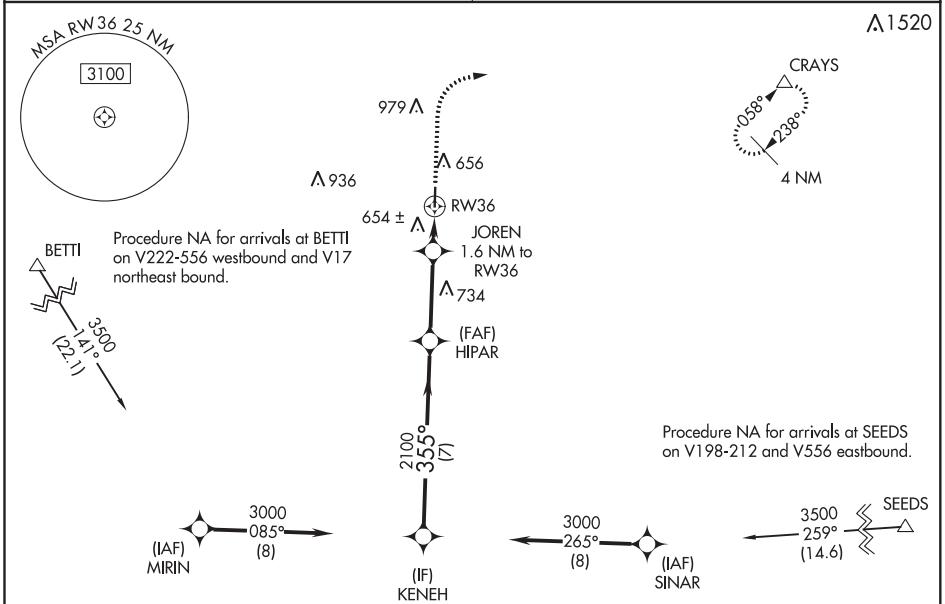
RNAV (GPS) RWY 36
LOCKHART MUNI (5ØR)

RNP APCH.

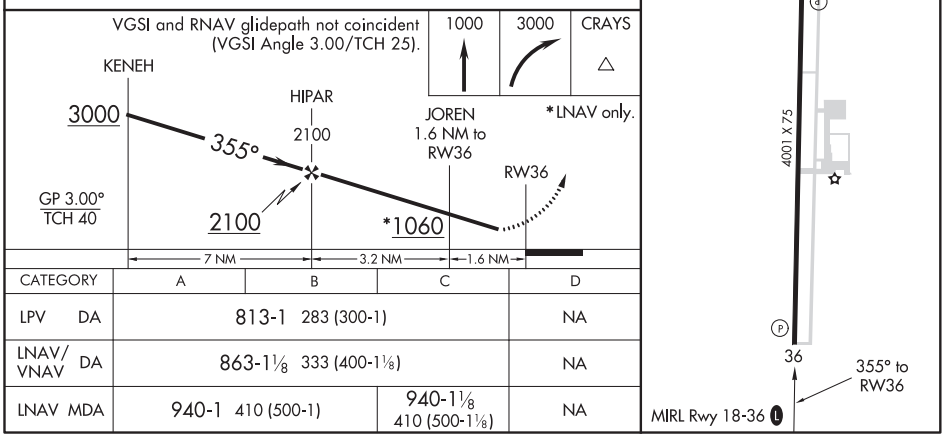
Baro-VNAV NA. Rwy 36 helicopter visibilty reduction below ¾ SM NA.
NA Use San Marcos altimeter setting, when not received, use Austin Bergstrom Intl altimeter setting and increase all DA 16 feet, all MDA 20 feet and increase LNAV Cat C visibility ⅛ mile.

MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct CRAYS and hold.

AUSTIN APP CON	UNICOM
120.875 270.25	122.8 (CTAF) L



ELEV 532	TDZE 530



CATEGORY	A	B	C	D
LPV DA	813-1 283 (300-1)			NA
LNAV/VNAV DA	863-1⅛ 333 (400-1⅛)			NA
LNAV MDA	940-1 410 (500-1)		940-1⅛ 410 (500-1⅛)	NA

LOCKHART, TEXAS
Orig-B 07NOV19

29°51′N-97°40′W

LOCKHART MUNI (5ØR)
RNAV (GPS) RWY 36

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

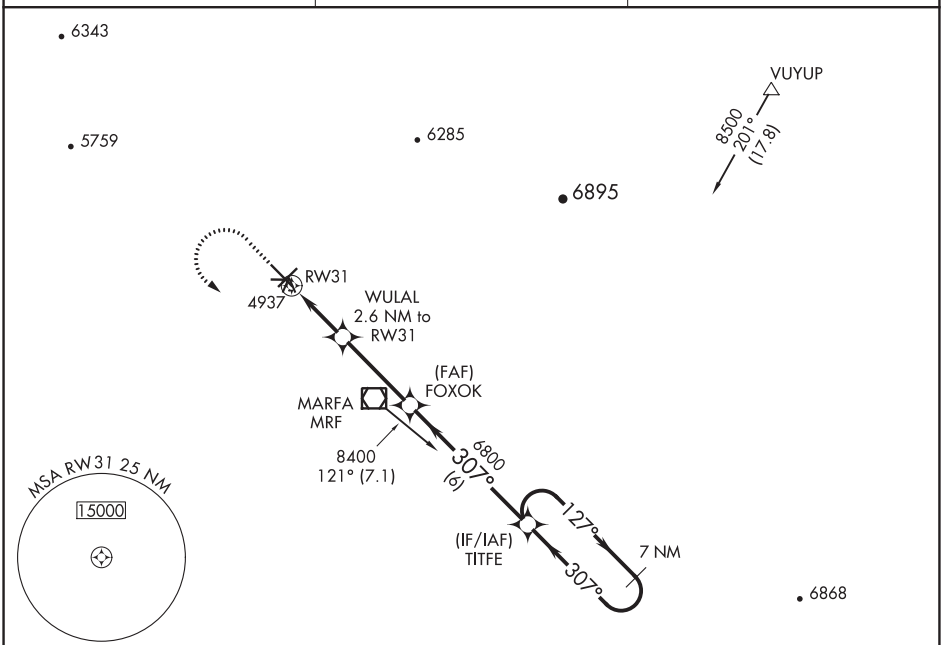
APP CRS	Rwy ldg	6203
307°	TDZE	4840
	Apt Elev	4849

RNAV (GPS) RWY 31
MARFA MUNI (MRF)

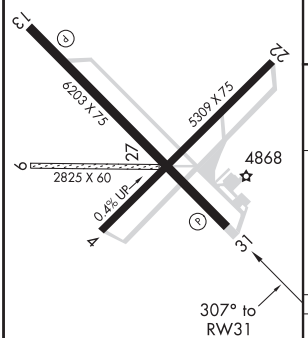
When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

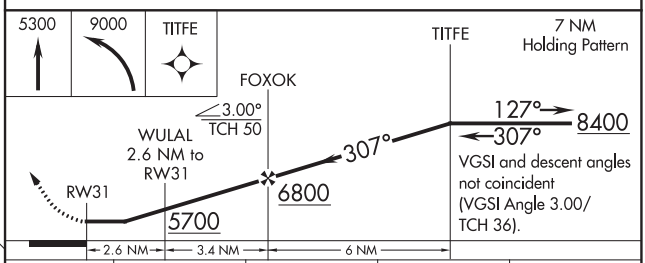
MISSED APPROACH: Climb to 5300 then climbing left turn to 9000 direct TITFE and hold, continue climb-in-hold to 9000.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
134.025	135.875 292.15	122.8 (CTAF) L



ELEV 4849 TDZE 4840





CATEGORY	A	B	C	D
LNAV MDA	5200-1 360 (400-1)			
CIRCLING	5280-1 431 (500-1)	5300-1 451 (500-1)	5300-1½ 451 (500-1½)	5400-2 551 (600-2)

MIRL Rwy 13-31 L

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

MARFA, TEXAS | AL-5443 (FAA) | 19171

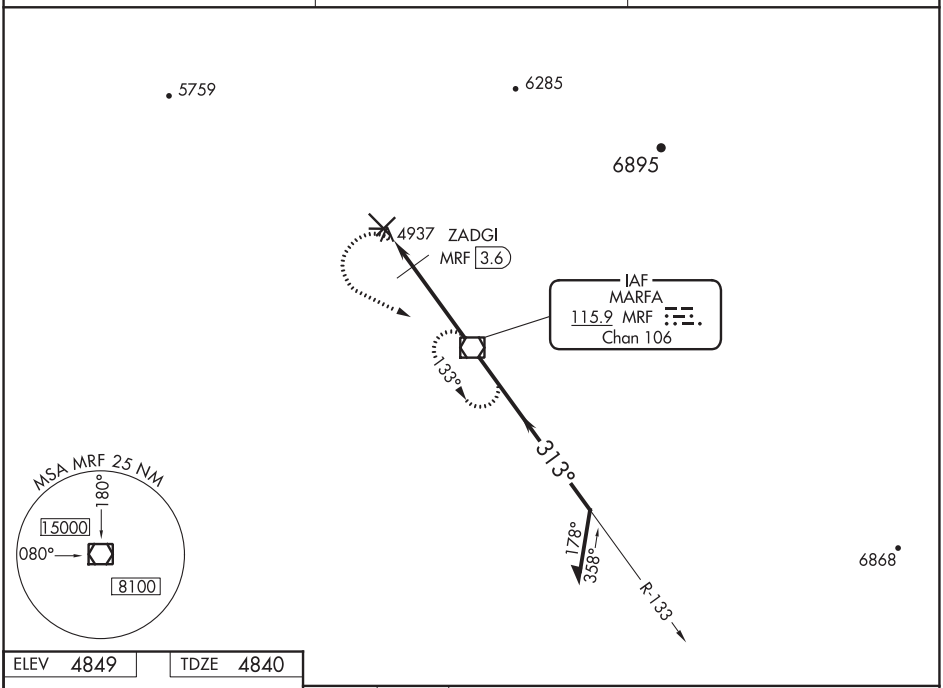
VOR RWY 31
MARFA MUNI (MRF)

VOR/DME MRF	APP CRS	Rwy ldg	6203
115.9	313°	TDZE	4840
Chan 106		Apt Elev	4849

When local altimeter setting not received, procedure NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct MRF VOR/DME and hold, continue climb-in-hold to 9000.

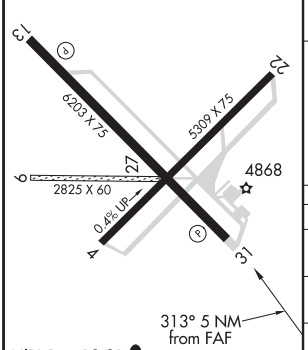
AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
134.025	135.875 292.15	122.8 (CTAF) L



SC-3, 25 FEB 2021 to 22 APR 2021

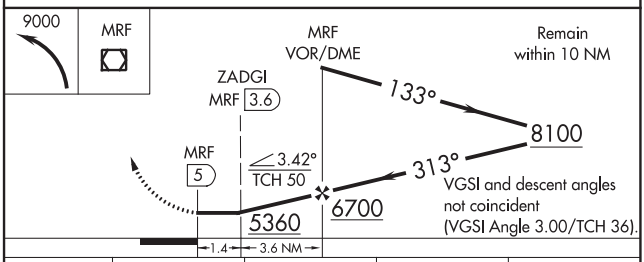
SC-3, 25 FEB 2021 to 22 APR 2021

ELEV 4849 | TDZE 4840



MIRL Rwy 13-31 L

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40



CATEGORY	A	B	C	D
S-31	5360-1 520 (600-1)		5360-1½ 520 (600-1½)	
CIRCLING	5360-1 511 (600-1)		5360-1½ 511 (600-1½)	5400-2 551 (600-2)
ZADGI FIX MINIMUMS				
S-31	5200-1 360 (400-1)			
CIRCLING	5280-1 431 (500-1)	5300-1 451 (500-1)	5300-1½ 451 (500-1½)	5400-2 551 (600-2)

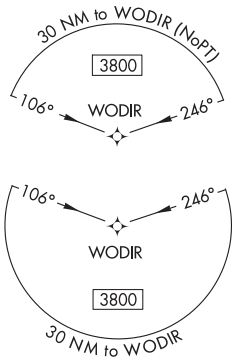
APP CRS	Rwy ldg	3716
176°	TDZE	1502
	Apt Elev	1514

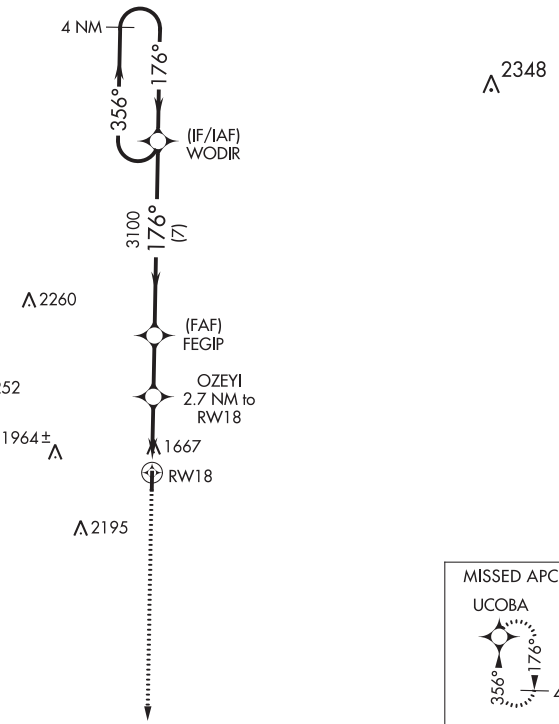
RNAV (GPS) RWY 18
MASON COUNTY (T92)

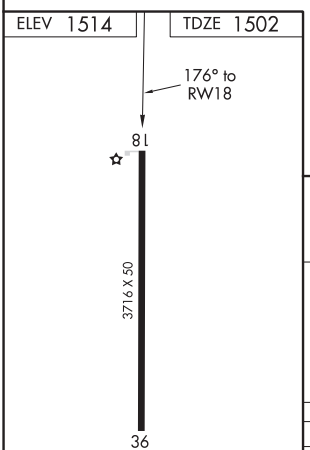
Rwy 18/36 helicopter visibility reduction below 1 SM NA.
DME/DME RNP-0.3 NA. Procedure NA at night.
NA Use Brady altimeter setting; when not received, use Llano altimeter setting and increase all MDAs 20 feet.

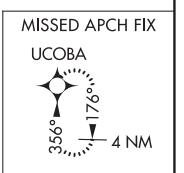
MISSED APPROACH: Climb to 3800 direct UCOBA and hold.

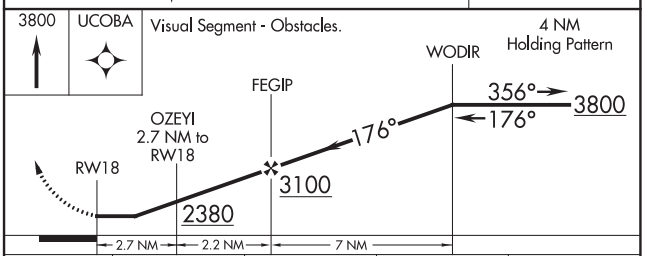
BBD AWOS-3	HOUSTON CENTER	CTAF	123.3 L
118.375	132.35 317.5	122.9	











CATEGORY	A	B	C	D
LNAV MDA	2080-1	578 (600-1)	NA	
C CIRCLING	2140-1	626 (700-1)	NA	

LIRL Rwy 18-36 L

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SC-3, 25 FEB 2021 to 22 APR 2021

MASON, TEXAS

AL-6269 (FAA)

19283

RNAV (GPS) RWY 36
MASON COUNTY (T92)

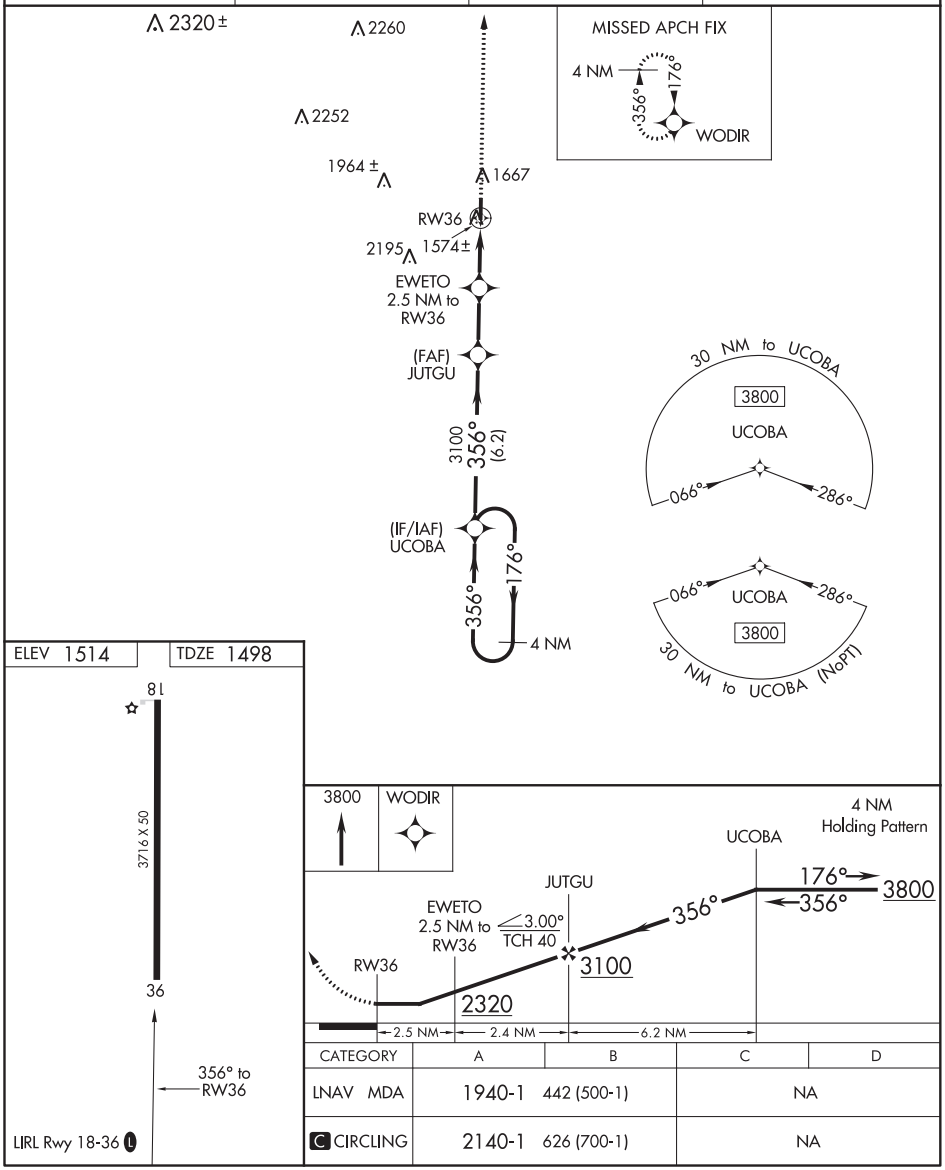
APP CRS	Rwy ldg	3716
356°	TDZE	1498
	Apt Elev	1514

NA

Rwy 18/36 helicopter visibility reduction below 1 SM NA.
DME/DME RNP-0.3 NA. Procedure NA at night.
Use Brady altimeter setting; when not received, use Llano altimeter setting and increase all MDAs 20 feet.

MISSED APPROACH: Climb to 3800 direct WODIR and hold.

BBD AWOS-3	HOUSTON CENTER	CTAF	
118.375	132.35 317.5	122.9	123.3 L



CATEGORY	A	B	C	D
LNAV MDA	1940-1 442 (500-1)		NA	
C CIRCLING	2140-1 626 (700-1)		NA	

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

MASON, TEXAS
Orig-C 17AUG17

30°44′N-99°11′W

MASON COUNTY (T92)

RNAV (GPS) RWY 36

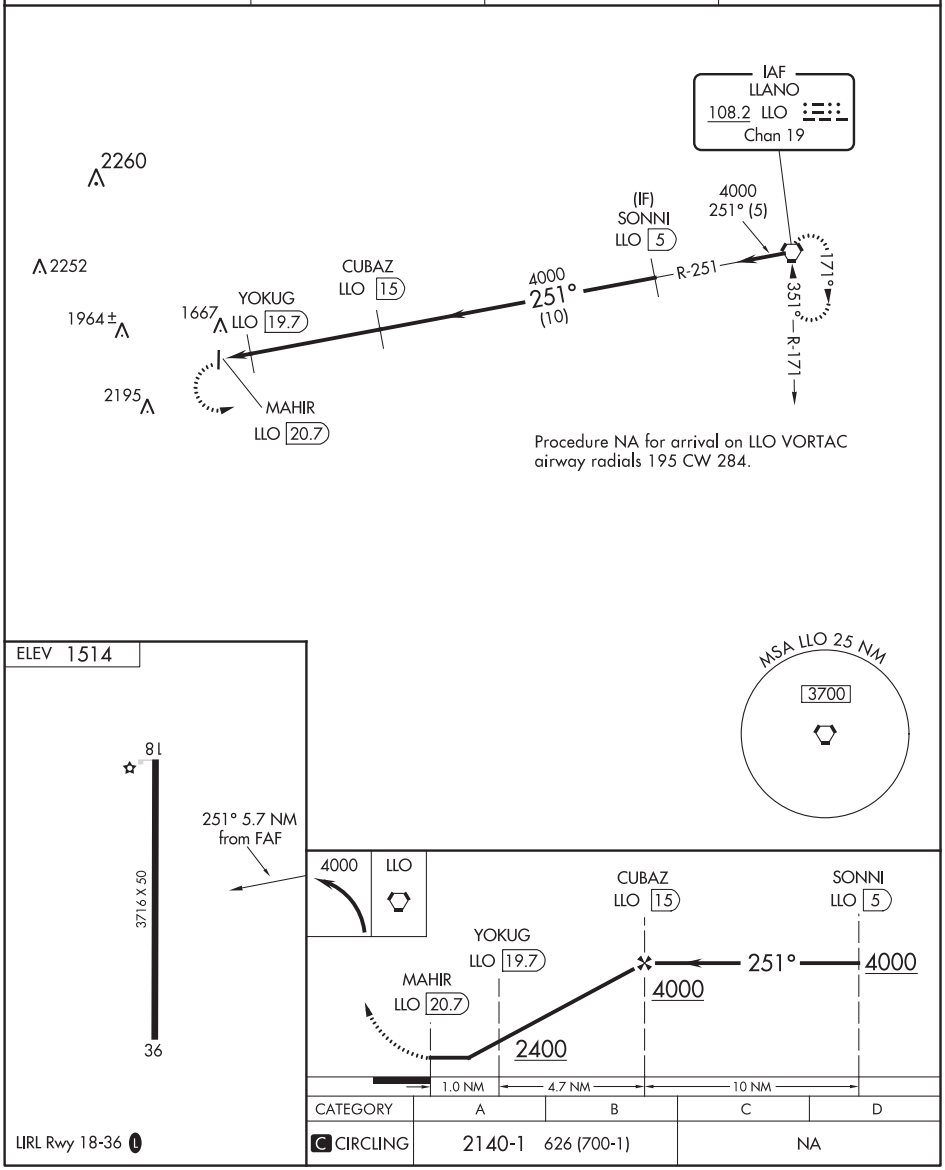
VORTAC LLO 108.2 Chan 19	APP CRS 251°	Rwy ldg N/A TDZE N/A Apt Elev 1514

VOR-A
MASON COUNTY (T92)

Rwy 18/36 helicopter visibility reduction below 1 SM NA.
DME required. Procedure NA at night. Use Brady altimeter setting; when not received, use Llano altimeter setting.

MISSED APPROACH: Climbing left turn to 4000 direct LLO VORTAC and hold.

BBD AWOS-3	HOUSTON CENTER	CTAF	123.3 L
118.375	132.35 317.5	122.9	



CATEGORY	A	B	C	D
C CIRCLING	2140-1	626 (700-1)	NA	

LIRL Rwy 18-36 L

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

MC ALLEN, TEXAS

AL-985 (FAA)

19171

ILS or LOC RWY 14
MC ALLEN MILLER INTL (MFE)

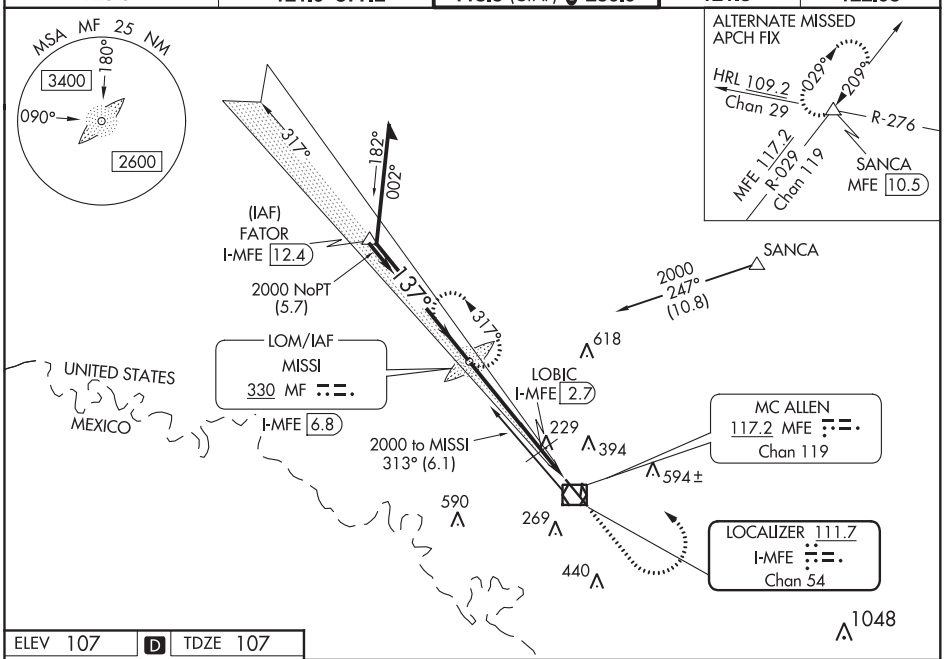
LOC/DME I-MFE	APP CRS	Rwy ldg	6983
111.7	137°	TDZE	107
Chan 54		Apt Elev	107

T A Circling NA northeast of Rwy 14-32. ADF required. When local altimeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet; increase all MDA 40 feet and S-LOC 14 Cat C/D and Circling Cat C visibility ⅛ mile, increase LOBIC Fix Minimums S-LOC 14 Cat C/D visibility ¼ mile.

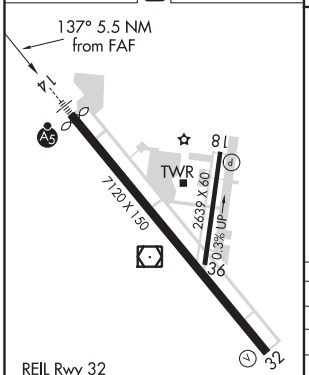
MALSR

MISSED APPROACH: Climb to 1500 then climbing left turn to 2000 direct to MISSI LOM and hold.

ATIS	VALLEY APP CON	MC ALLEN TOWER ★	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95

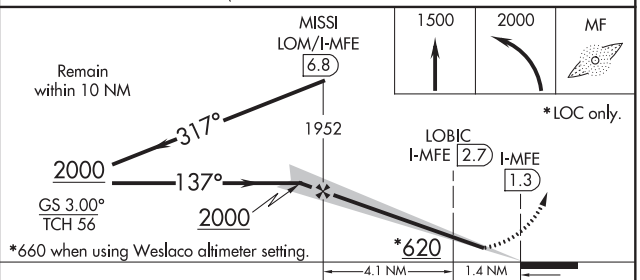


ELEV 107 | D | TDZE 107



REIL Rwy 32
HIRL Rwy 14-32 L
MIRL Rwy 18-36 L

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50



CATEGORY	A	B	C	D
S-ILS 14	307-½ 200 (200-½)			
S-LOC 14	620-½ 513 (600-½)		620-1 513 (600-1)	
C CIRCLING	620-1 513 (600-1)		620-1½ 513 (600-1½)	800-2¼ 693 (700-2¼)
LOBIC FIX MINIMUMS				
S-LOC 14	540-½ 433 (500-½)		540-¾ 433 (500-¾)	
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)

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SC-3, 25 FEB 2021 to 22 APR 2021

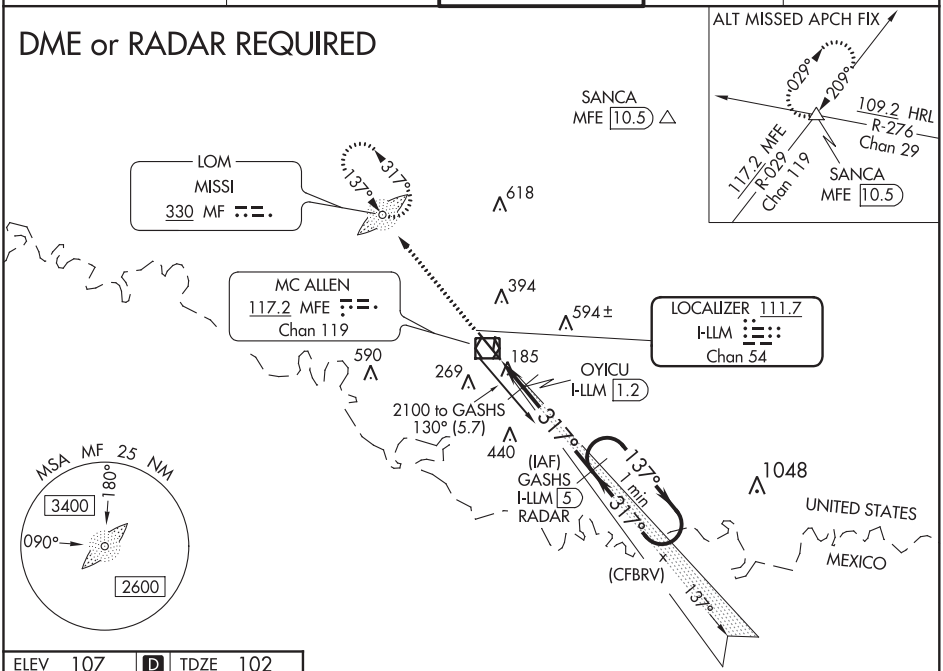
ILS or LOC RWY 32
MC ALLEN MILLER INTL (MFE)

LOC/DME I-LLM	APP CRS	Rwy ldg 7120
111.7	317°	TDZE 102
Chan 54		Apt Elev 107

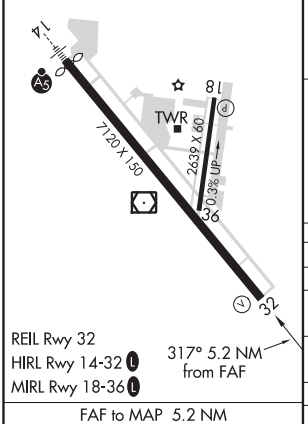
T A Circling NA northeast of Rwy 14-32. ADF and DME or Radar required. When local altimeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet and MDA 40 feet.

MISSED APPROACH: Climb to 2100 direct MF LOM and hold

ATIS	VALLEY APP CON	MC ALLEN TOWER ★	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95



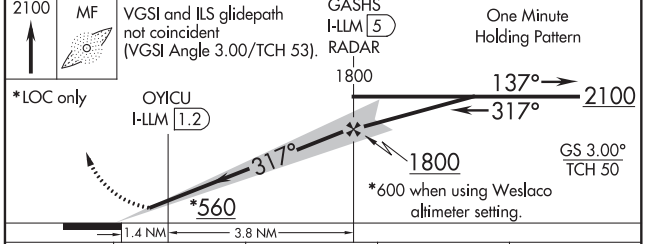
ELEV 107 | D | TDZE 102



REIL Rwy 32
HIRL Rwy 14-32 L
MIRL Rwy 18-36 L

317° 5.2 NM from FAF

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44



CATEGORY	A	B	C	D
S-ILS 32	302-¾ 200 (200-¾)			
S-LOC 32	560-1 458 (500-1)		560-1⅜ 458 (500-1⅜)	
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)
OYICU FIX MINIMUMS				
S-LOC 32	440-1 338 (400-1)			
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

MC ALLEN, TEXAS

AL-985 (FAA)

18312

RNAV (GPS) RWY 14
MC ALLEN MILLER INTL (MFE)

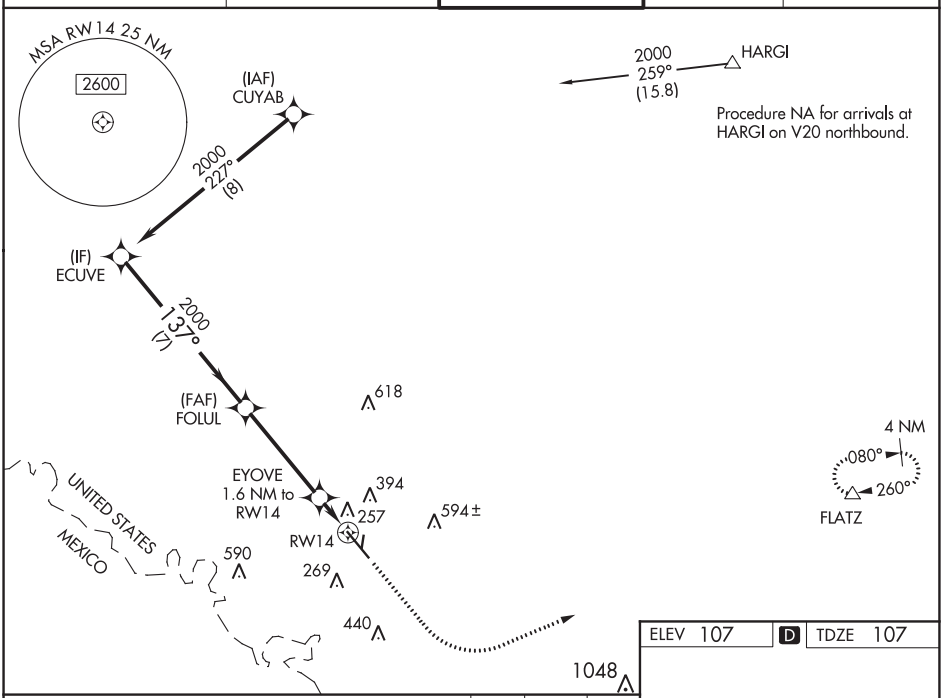
WAAS CH 78400 W14A	APP CRS 137°	Rwy ldg 6983 TDZE 107 Apt Elev 107

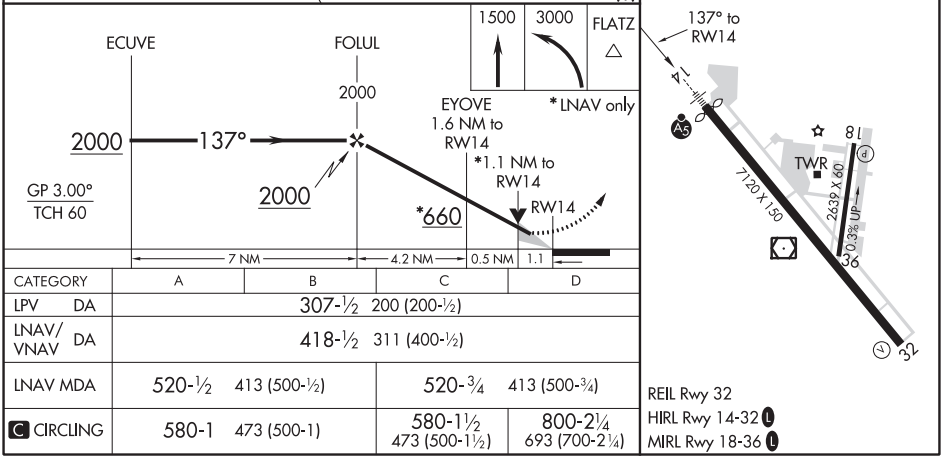
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA. When local altimeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet and LNAV/VNAV all Cat visibility ⅛ mile; increase all MDA 40 feet and LNAV Cat C/D visibility ⅛ mile. Baro-VNAV and VDP NA when using Weslaco altimeter setting.

MALSR

MISSED APPROACH: Climb to 1500 then climbing left turn to 3000 direct FLATZ and hold.

ATIS	VALLEY APP CON	MC ALLEN TOWER*	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95





CATEGORY	A	B	C	D
LPV DA	307-½ 200 (200-½)			
LNAV/VNAV DA	418-½ 311 (400-½)			
LNAV MDA	520-½ 413 (500-½)		520-¾ 413 (500-¾)	
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)

MC ALLEN, TEXAS
Amdt 1 10DEC15

26°11′N-98°14′W

MC ALLEN MILLER INTL (MFE)
RNAV (GPS) RWY 14

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 78001 W32A	APP CRS 317°	Rwy ldg 7120 TDZE 102 Apt Elev 107

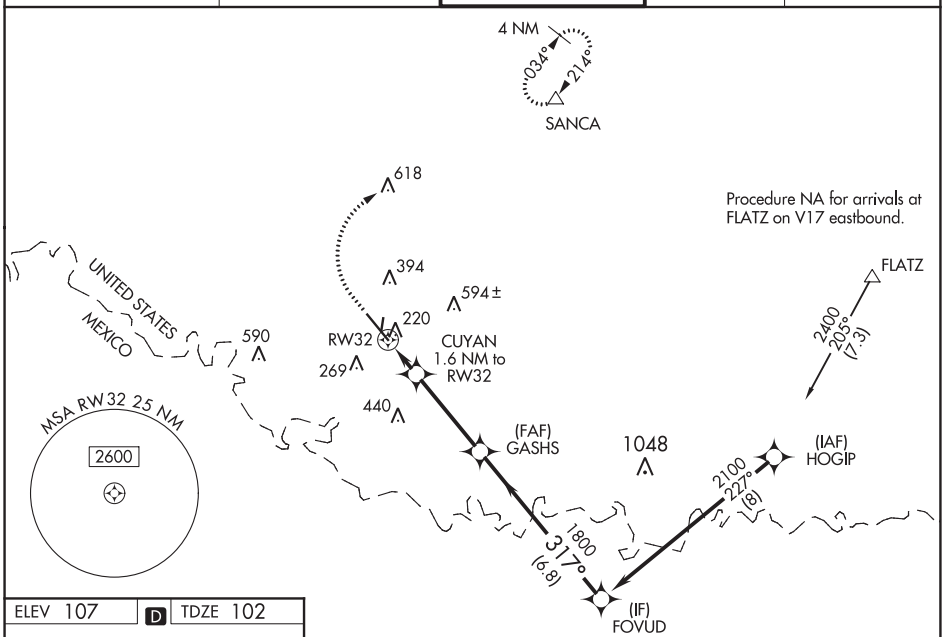
RNAV (GPS) RWY 32

MC ALLEN MILLER INTL (MFE)

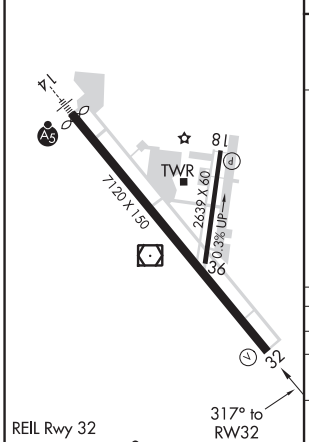
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 1°C (34°F) or above 54°C (130°F). Circling NA northeast of Rwy 14-32. DME/DME RNP-0.3 NA. When local alitmeter setting not received, use Weslaco altimeter setting: increase all DA 39 feet and LNAV/VNAV all Cat visibility ¼ mile; increase all MDA 40 feet and LNAV Cat C/D visibility ⅛ mile. Baro-VNAV and VDP NA when using Weslaco altimeter setting.

MISSED APPROACH: Climb to 800 then climbing right turn to 2000 direct SANCA and hold.

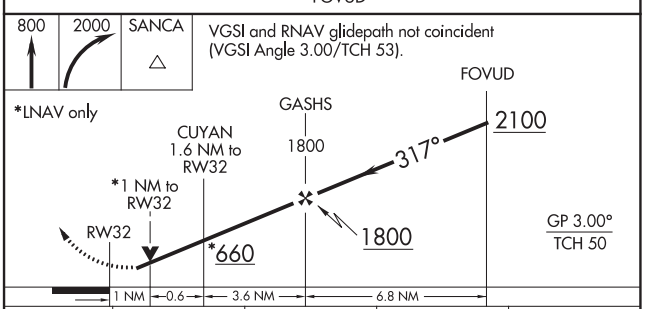
ATIS	VALLEY APP CON	MC ALLEN TOWER*	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95



ELEV 107 | D | TDZE 102



REIL Rwy 32
HIRL Rwy 14-32 L
MIRL Rwy 18-36 L



CATEGORY	A	B	C	D
LPV DA	302-¾ 200 (200-¾)			
LNAV/VNAV DA	391-⅞ 289 (300-⅞)			
LNAV MDA	480-1 378 (400-1)			
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

MC ALLEN, TEXAS | AL-985 (FAA) | 18312

VOR RWY 14

MC ALLEN MILLER INTL (MFE)

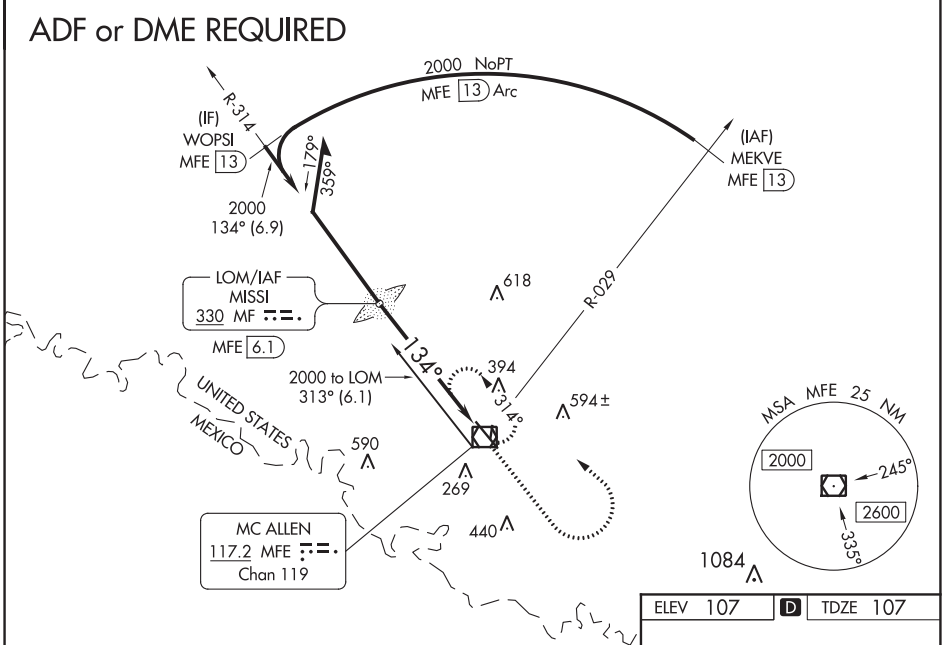
VOR/DME MFE	APP CRS	Rwy ldg	6983
117.2	134°	TDZE	107
Chan 119		Apt Elev	107

Circling NA northeast of Rwy 14-32. ADF or DME required. For inop MALSR, increase S-14 Cat C/D visibility to 1⅜ mile. When local altimeter setting not received, use Weslaco altimeter setting and increase all MDA 40 feet and S-14 Cat C/D and Circling Cat C visibility ⅛ mile. VDP NA when using Weslaco altimeter setting.

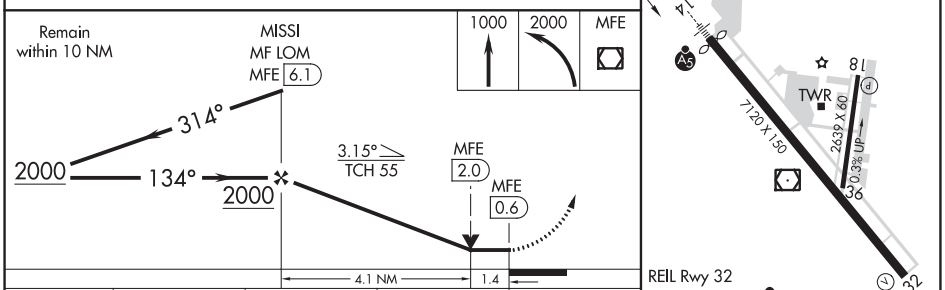
MALSR

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct MFE VOR/DME and hold.

ATIS	VALLEY APP CON	MC ALLEN TOWER ★	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95



ELEV 107	D	TDZE 107



CATEGORY	A	B	C	D
S-14	620-½ 513 (600-½)		620-1 513 (600-1)	
C CIRCLING	620-1 513 (600-1)		620-1½ 513 (600-1½)	800-2¼ 693 (700-2¼)

REIL Rwy 32
HIRL Rwy 14-32 L
MIRL Rwy 18-36 L

FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

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SC-3, 25 FEB 2021 to 22 APR 2021

VOR RWY 32

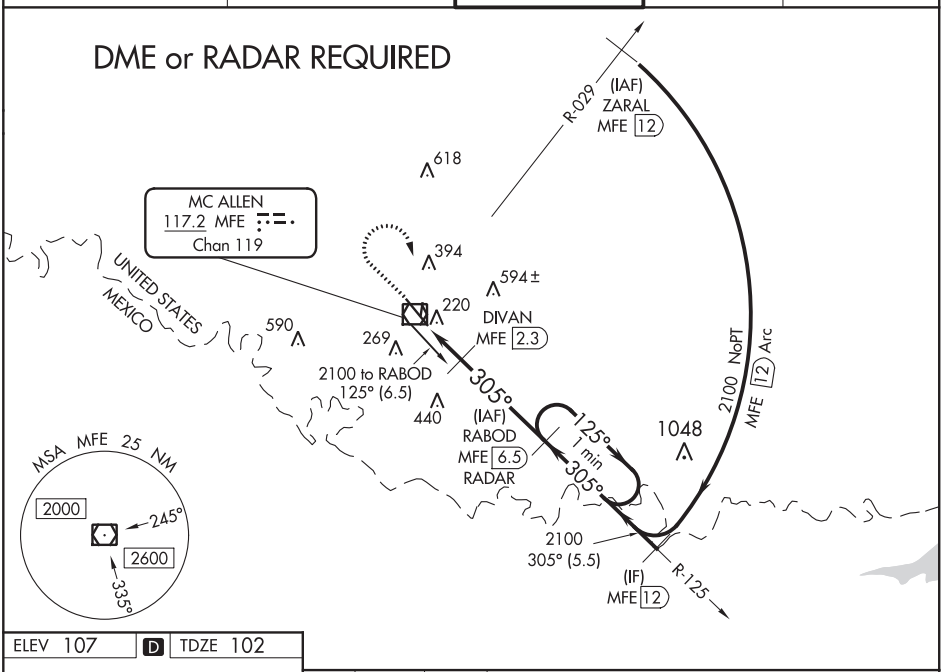
MC ALLEN MILLER INTL (MFE)

VOR/DME MFE	APP CRS	Rwy ldg 7120
117.2	305°	TDZE 102
Chan 119		Apt Elev 107

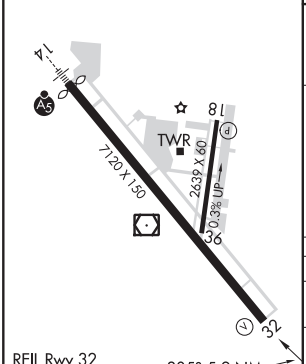
T A Circling NA northeast of Rwy 14-32. When local altimeter setting not received, use Weslaco altimeter setting and increase all MDA 40 feet and S-32 Cat C/D and Circling Cat C visibility ⅛ mile, increase DIVAN Fix Minimums S-32 Cat C/D visibility ⅛ mile. VDP NA when using Weslaco altimeter setting.

MISSED APPROACH: Climb to 900 then climbing right turn to 2100 direct MFE VOR/DME.

ATIS	VALLEY APP CON	MC ALLEN TOWER★	GND CON	UNICOM
128.5	121.0 377.2	118.5 (CTAF) L 256.9	121.8	122.95



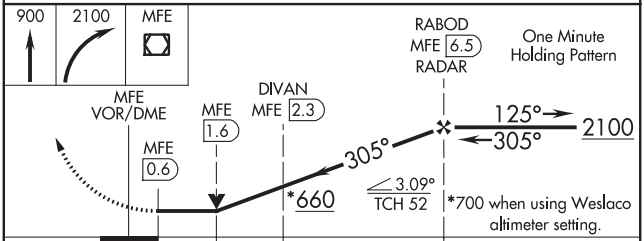
ELEV 107 | D | TDZE 102



REIL Rwy 32
HIRL Rwy 14-32 L
MIRL Rwy 18-36 L

305° 5.9 NM from FAF

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-32	660-1 558 (600-1)		660-1⅝ 558 (600-1⅝)	
C CIRCLING	660-1 553 (600-1)		660-1⅝ 553 (600-1⅝)	800-2¼ 693 (700-2¼)
DIVAN FIX MINIMUMS				
S-32	480-1 378 (400-1)			
C CIRCLING	580-1 473 (500-1)		580-1½ 473 (500-1½)	800-2¼ 693 (700-2¼)

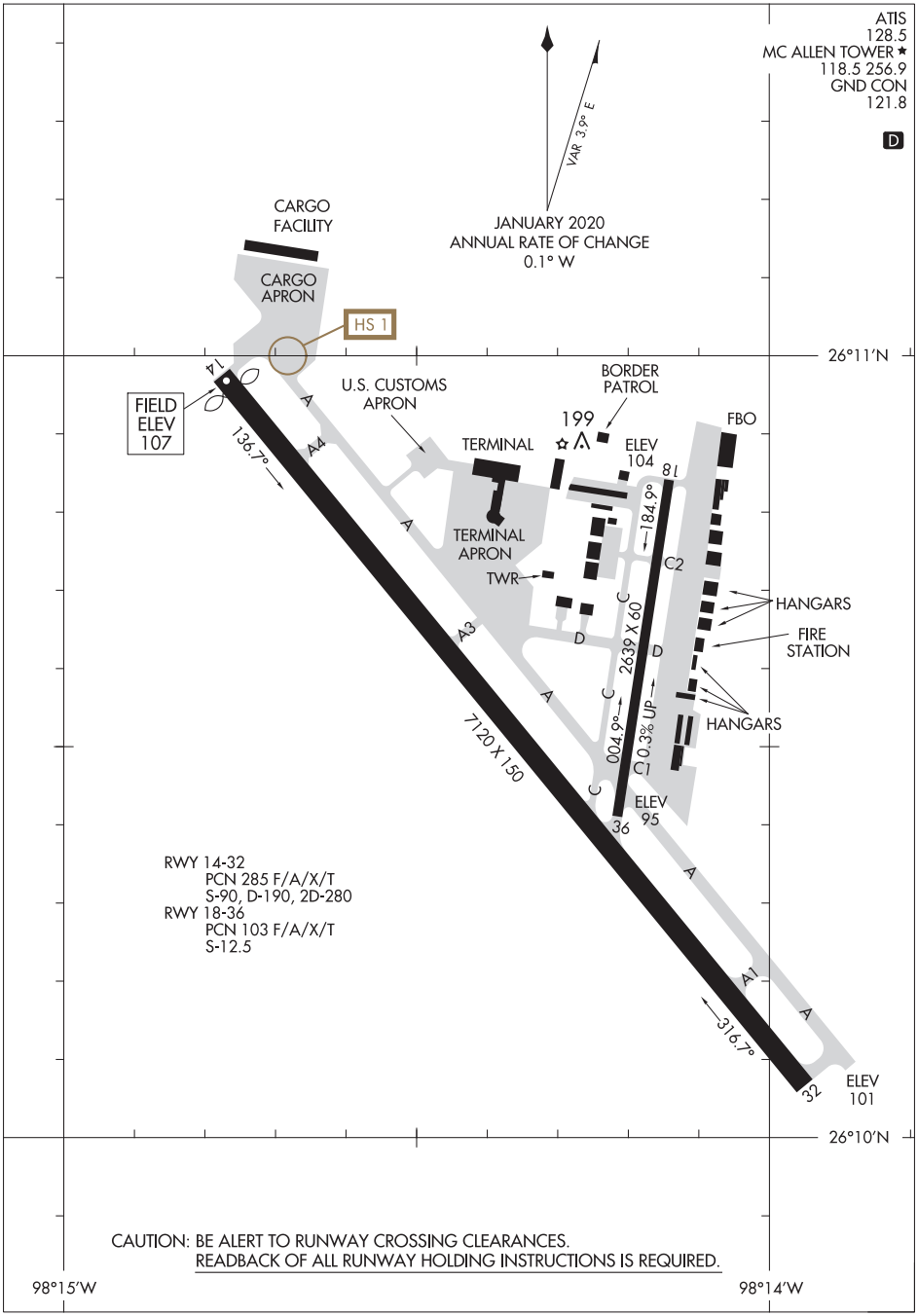
SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-985 (FAA)

MC ALLEN MILLER INTL (MFE)
MC ALLEN, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
MC ALLEN, TEXAS
MC ALLEN MILLER INTL (MFE)

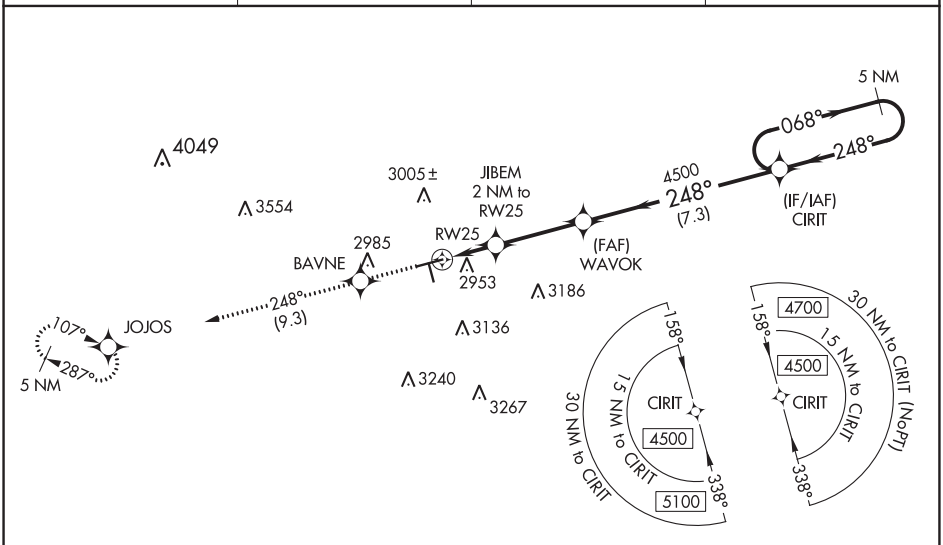
WAAS CH 72923 W25A	APP CRS 248°	Rwy ldg 5571 TDZE 2800 Apt Elev 2805

RNAV (GPS) RWY 25
MIDLAND AIRPARK (MDD)

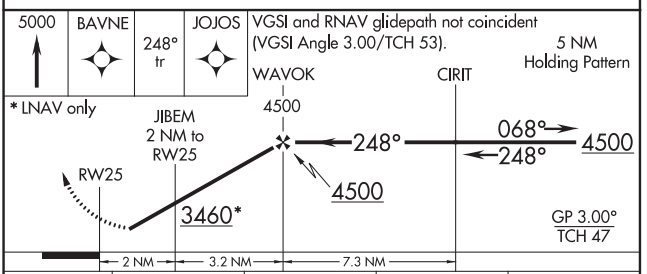
Baro-VNAV NA when using Midland Intl Air and Space Port altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 26°C (78°F). When local altimeter setting not received, use Midland Intl Air and Space Port altimeter setting and increase all DA 28 feet, all MDA 40 feet, increase LNAV/VNAV all Cats and LNAV Cat C/D visibility ⅛ mile. When VGSI inop, Straight-in/Circling Rwy 25 procedure NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA.

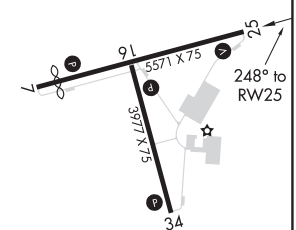
MISSED APPROACH: Climb to 5000 direct BAVNE and on 248° track to JOJOS and hold.

AWOS-3	MIDLAND APP CON *	CLNC DEL	UNICOM
118.125	124.6 290.4	121.8	122.7 (CTAF) L



ELEV 2805	D	TDZE 2800





CATEGORY	A	B	C	D
LPV DA	3081-1 281 (300-1)			
LNAV/VNAV DA	3144-1⅛ 344 (400-1⅛)			
LNAV MDA	3220-1 420 (500-1)		3220-1¼ 420 (500-1¼)	
CIRCLING	3320-1 515 (600-1)		3320-1½ 515 (600-1½)	3700-3 895 (900-3)

MIRL Rwys 7-25 and 16-34 L

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MIDLAND, TEXAS

AL-6158 (FAA)

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WAAS CH 58029 W34A	APP CRS 338°	Rwy ldg 3977 TDZE 2801 Apt Elev 2805

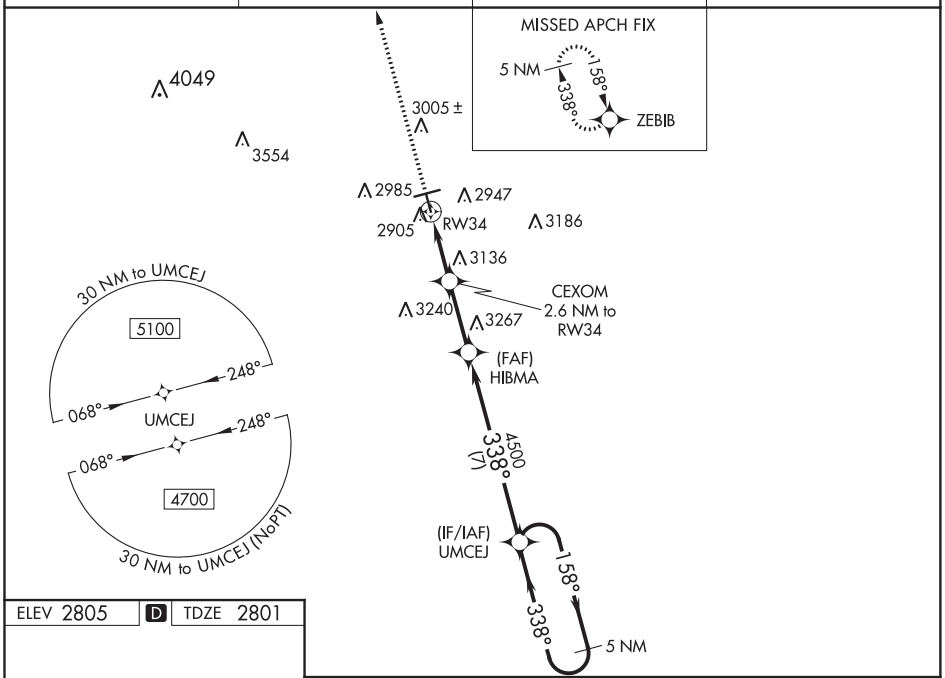
RNAV (GPS) RWY 34

MIDLAND AIRPARK (MDD)

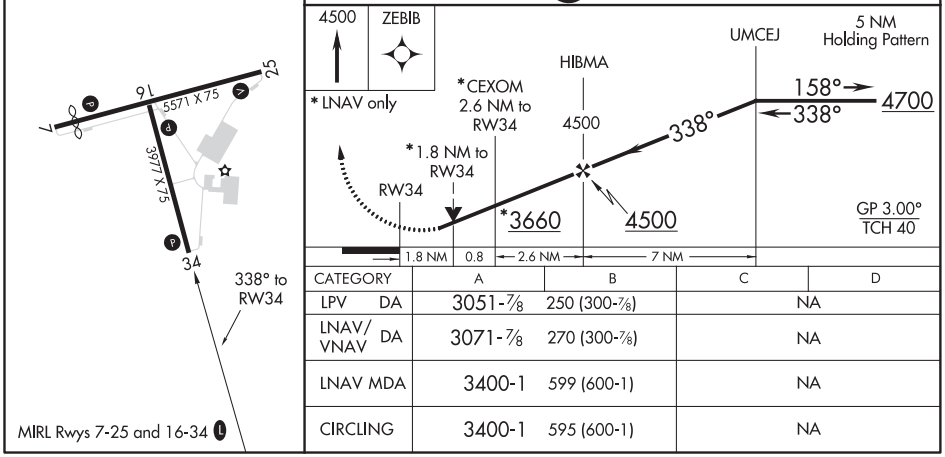
Baro-VNAV NA when using Midland Intl Air and Space Port altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. VDP NA with Midland Intl Air and Space Port altimeter setting. When local altimeter setting not received, use Midland Intl Air and Space Port altimeter setting and increase all DA 28 feet, all MDA 40, increase LNAV/VNAV all Cats visibility ⅛.

MISSED APPROACH: Climb to 4500 direct ZEBIB and hold.

AWOS-3	MIDLAND APP CON *	CLNC DEL	UNICOM
118.125	124.6 290.4	121.8	122.7 (CTAF) L



ELEV 2805 D TDZE 2801



MIRL Rwys 7-25 and 16-34 L

CATEGORY	A	B	C	D
LPV DA	3051-⅞	250 (300-⅞)	NA	
LNAV/VNAV DA	3071-⅞	270 (300-⅞)	NA	
LNAV MDA	3400-1	599 (600-1)	NA	
CIRCLING	3400-1	595 (600-1)	NA	

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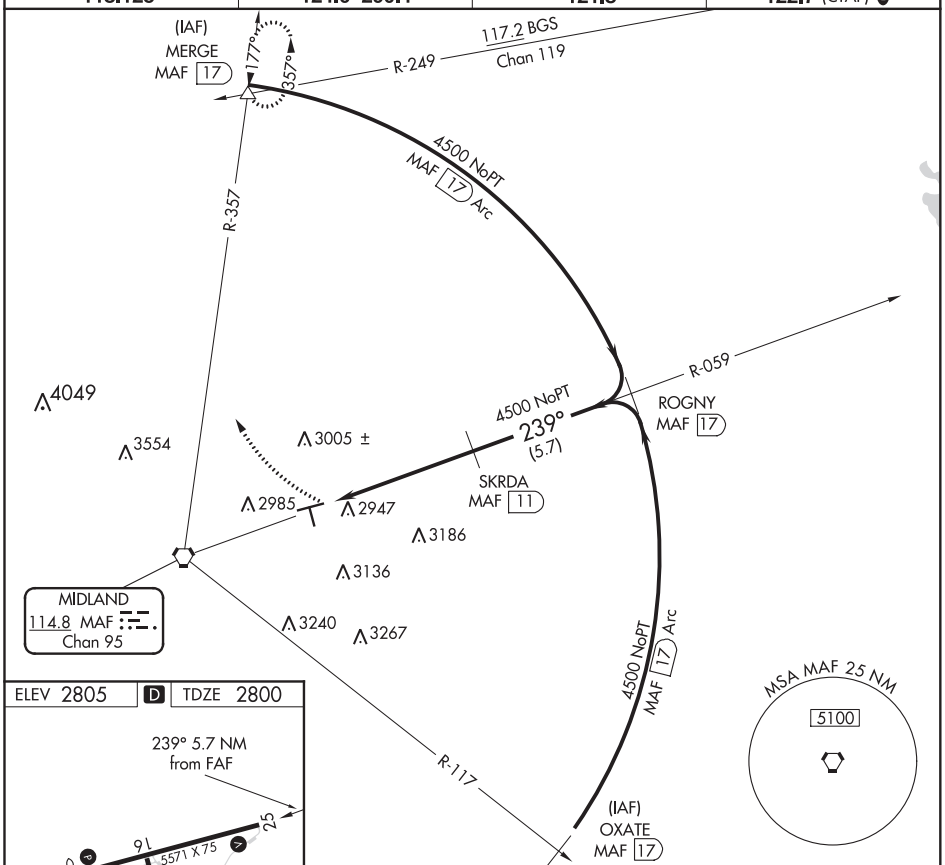
VOR/DME RWY 25
MIDLAND AIRPARK (MDD)

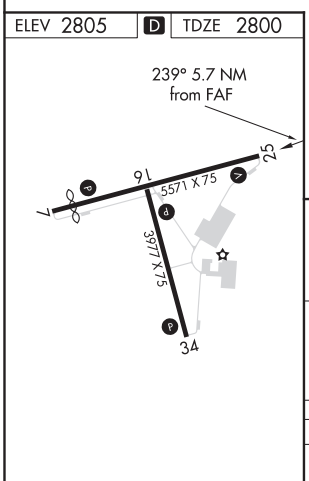
VORTAC MAF	APP CRS	Rwy ldg	5571
114.8	239°	TDZE	2800
Chan 95		Apt Elev	2805

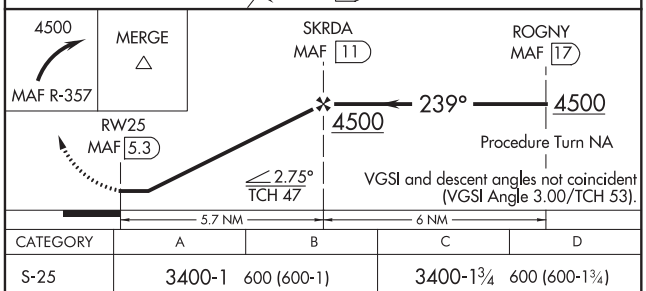
When local altimeter setting not received, use Midland Intl Air and Space Port altimeter setting and increase all MDA 40 feet, increase S-25 Cat C/D and Circling Cat C visibility ⅛ mile. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 4500 via MAF R-357 to MERGE Int/17 DME and hold.

AWOS-3	MIDLAND APP CON ★	CLNC DEL	UNICOM
118.125	124.6 290.4	121.8	122.7 (CTAF) L







CATEGORY	A	B	C	D
S-25	3400-1	600 (600-1)	3400-1¾	600 (600-1¾)
CIRCLING	3400-1	595 (600-1)	3400-1¾ 595 (600-1¾)	3700-3 895 (900-3)

MIRL Rwys 7-25 and 16-34 L

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VORTAC MAF	APP CRS	Rwy ldg	N/A
114.8	061°	TDZE	N/A
Chan 95		Apt Elev	2803

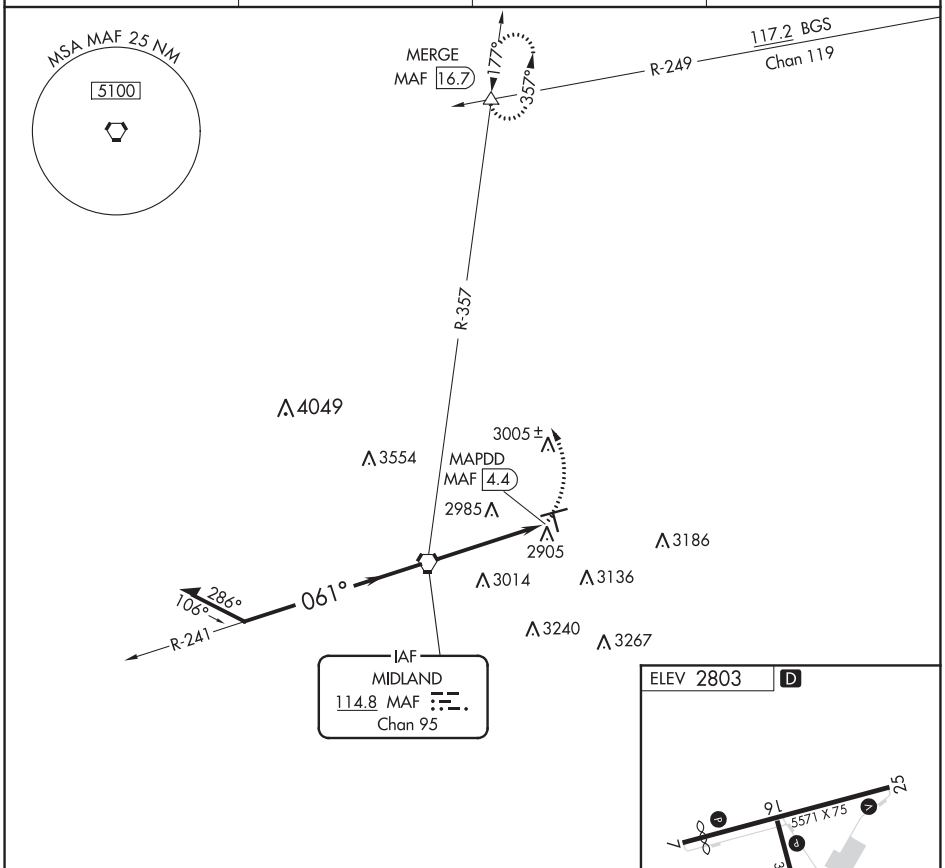
VOR-A
MIDLAND AIRPARK (MDD)

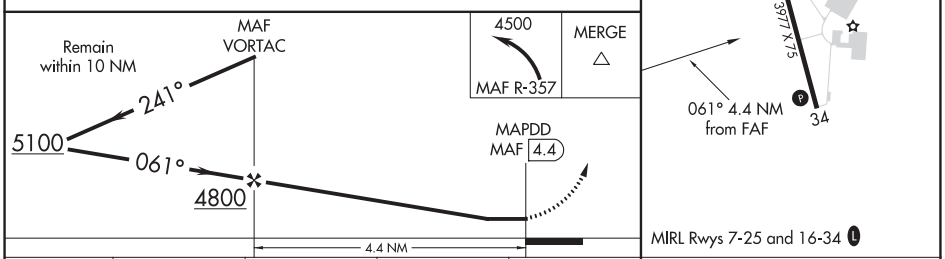
When local altimeter setting not received, use Midland Intl Air and Space Port altimeter setting and increase all MDA 40 feet, and Cat C visibility ¼ mile.

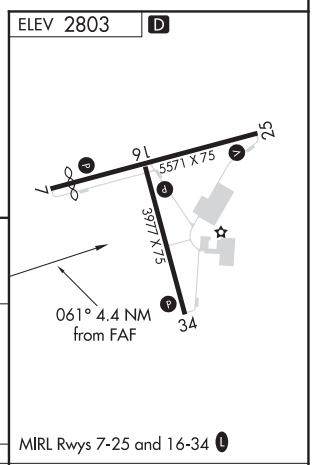
NA

MISSED APPROACH: Climbing left turn to 4500 via MAF R-357 to MERGE Int and hold.

AWOS-3	MIDLAND APP CON ★	CLNC DEL	UNICOM
118.125	124.6 290.4	121.8	122.7 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	3380-1 577 (600-1)		3380-1½ 577 (600-1½)	3700-3 897 (900-3)

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

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ILS or LOC RWY 10
MIDLAND INTL AIR AND SPACE PORT (MAF)

LOC/DME I-MAF	APP CRS	Rwy ldg	8302
110.3	105°	TDZE	2869
Chan 40		Apt Elev	2872

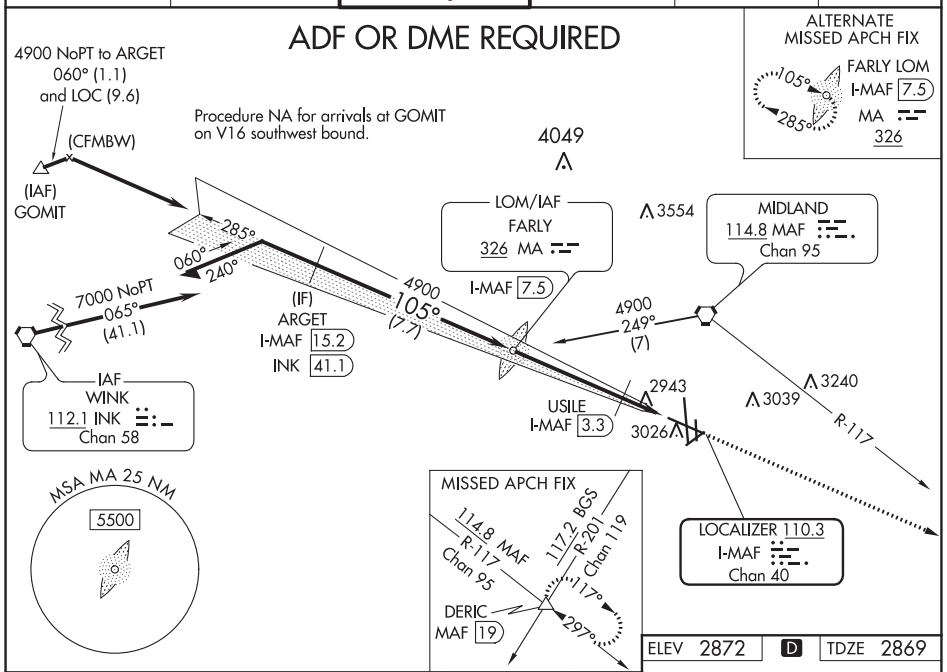
Circling Rwy 16L NA at night. For inop ALS, increase S-ILS 10 Cat E visibility to RVR 4000, S-LOC 10 Cat E visibility to 1¾ SM. USILE fix minimums increase S-LOC 10 Cat E visibility to 1⅝ SM. ** RVR 1800 authorized with use of FD or AP or HUD to DA.

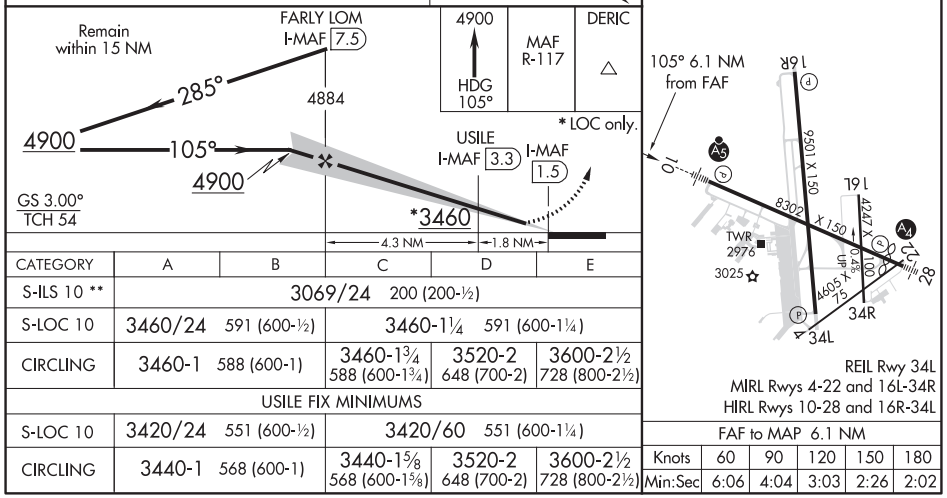
ASR

MALSR

MISSED APPROACH: Climb to 4900 on heading 105° and on MAF VORTAC R-117 to DERIC INT/MAF 19 DME and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95





CATEGORY	A	B	C	D	E
S-ILS 10 **	3069/24 200 (200-½)				
S-LOC 10	3460/24 591 (600-½)		3460-1¼ 591 (600-1¼)		
CIRCLING	3460-1 588 (600-1)		3460-1¾ 588 (600-1¾)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)
USILE FIX MINIMUMS					
S-LOC 10	3420/24 551 (600-½)		3420/60 551 (600-1¼)		
CIRCLING	3440-1 568 (600-1)		3440-1⅝ 568 (600-1⅝)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

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MIDLAND, TEXAS

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RNAV (GPS) RWY 4

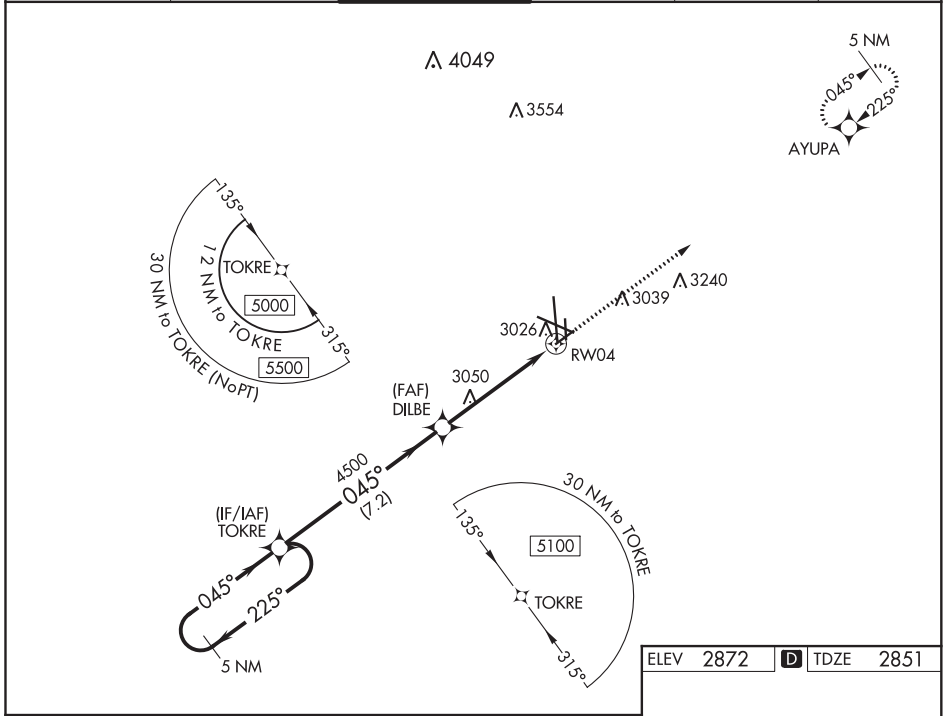
MIDLAND INTL AIR AND SPACE PORT (MAF)

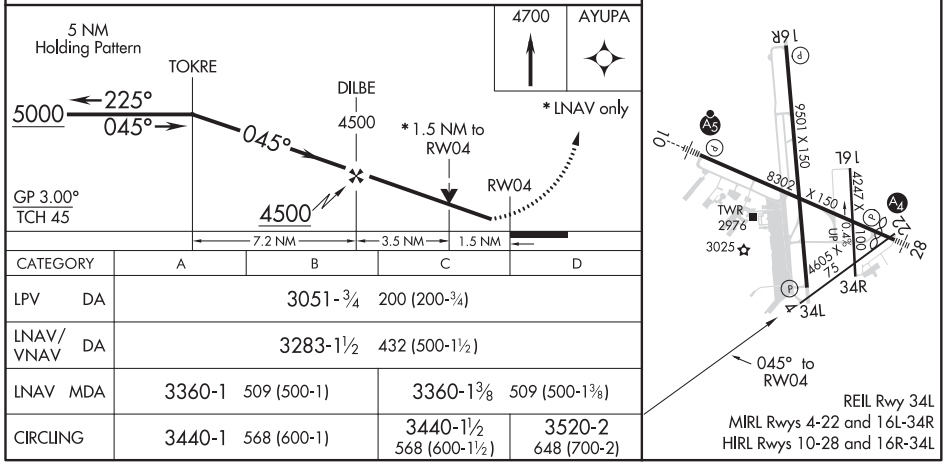
WAAS CH 90529 W04A	APP CRS 045°	Rwy ldg 4605 TDZE 2851 Apt Elev 2872

ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). Circling Rwy 16L NA at night. Rwy 4 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4700 direct AYUPA and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95





CATEGORY	A	B	C	D
LPV DA	3051-¾ 200 (200-¾)			
LNAV/VNAV DA	3283-1½ 432 (500-1½)			
LNAV MDA	3360-1 509 (500-1)		3360-1⅜ 509 (500-1⅜)	
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)

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WAAS CH 69310 W10A	APP CRS 105°	Rwy ldg 8302 TDZE 2869 Apt Elev 2872

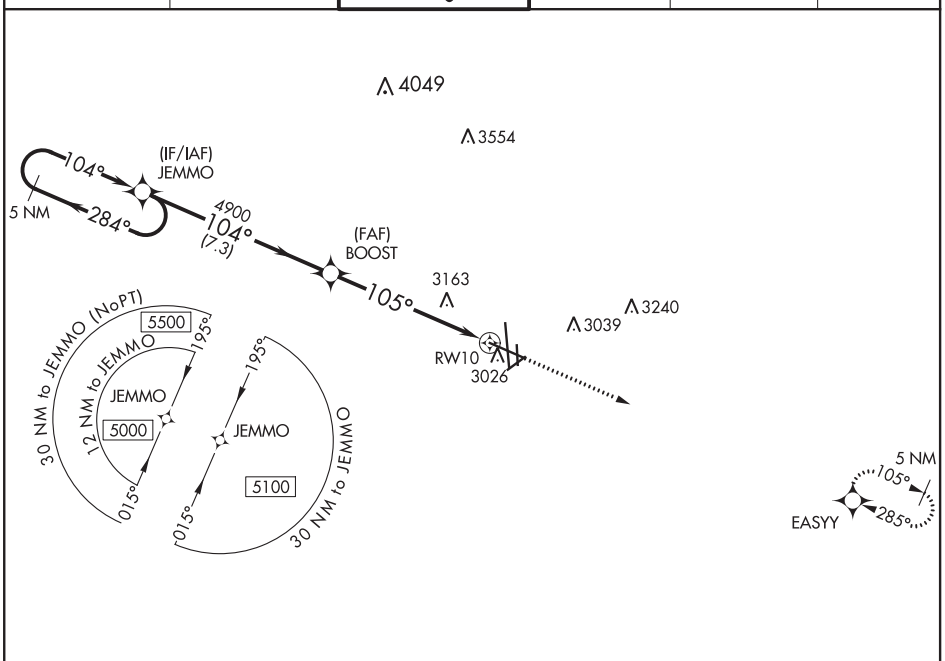
RNAV (GPS) RWY 10
MIDLAND INTL AIR AND SPACE PORT (MAF)

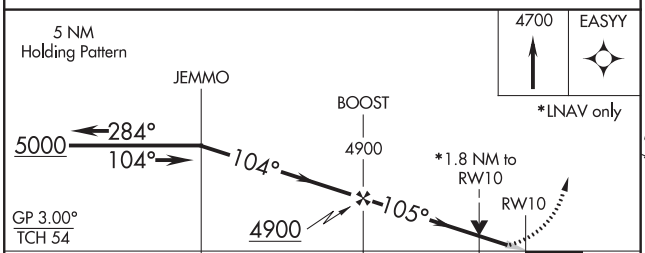
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). Circling Rwy 16L NA at night. DME/DME RNP-0.3 NA.
ASR ** RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 4700 direct EASYY and hold.

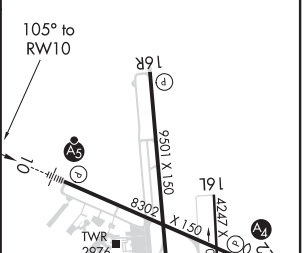
ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95





CATEGORY	A	B	C	D
LPV DA **	3069/24 200 (200-½)			
LNAV/VNAV DA	3394-1¼ 525 (600-1¼)			
LNAV MDA	3480/24 611 (700-½)		3480-1⅜ 611 (700-1⅜)	
CIRCLING	3480-1 608 (700-1)		3480-1¾ 608 (700-1¾)	3520-2 648 (700-2)

ELEV 2872 D TDZE 2869



REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L

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WAAS CH 61329 W16A	APP CRS 166°	Rwy ldg 9501 TDZE 2872 Apt Elev 2872

RNAV (GPS) RWY 16R

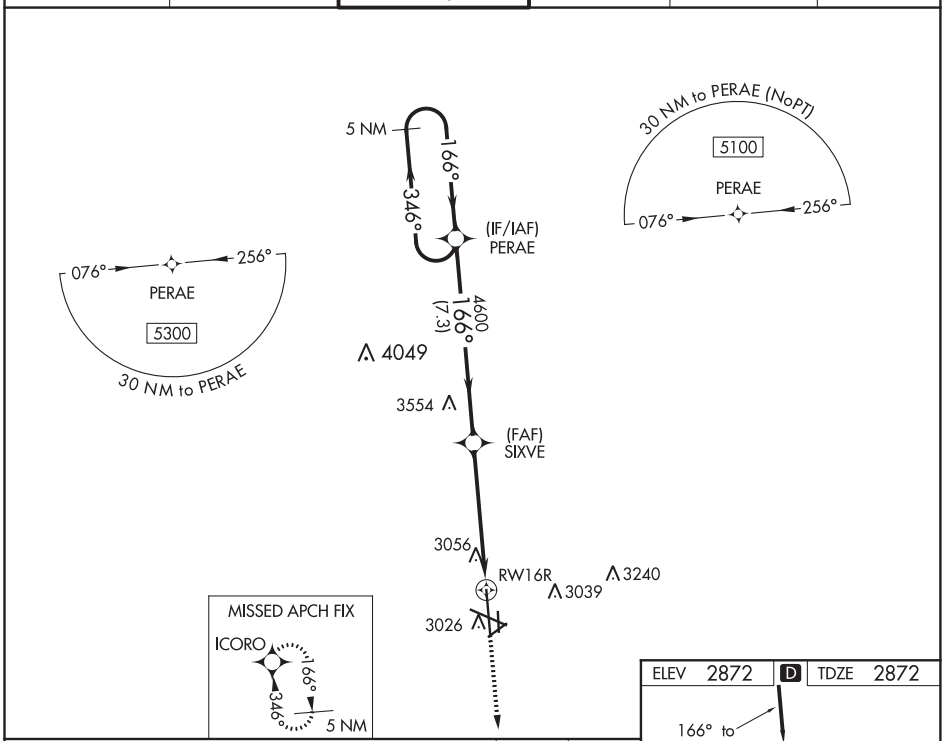
MIDLAND INTL AIR AND SPACE PORT (MAF)

ASR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). Rwy 16R helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. Circling Rwy 16L NA at night.

MISSED APPROACH: Climb to 4700 direct ICORO and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95



CATEGORY	A	B	C	D
LPV DA	3072-¾ 200 (200-¾)			
LNAV/VNAV DA	3398-1¾ 526 (600-1¾)			
LNAV MDA	3360-1 488 (500-1)		3360-1⅜ 488 (500-1⅜)	
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)

REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L

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MIDLAND, TEXAS
Amdt 1B 22JUN17

31°57′N-102°12′W

MIDLAND INTL AIR AND SPACE PORT (MAF)
RNAV (GPS) RWY 16R

WAAS CH 50429 W22A	APP CRS 225°	Rwy ldg 4605 TDZE 2855 Apt Elev 2872

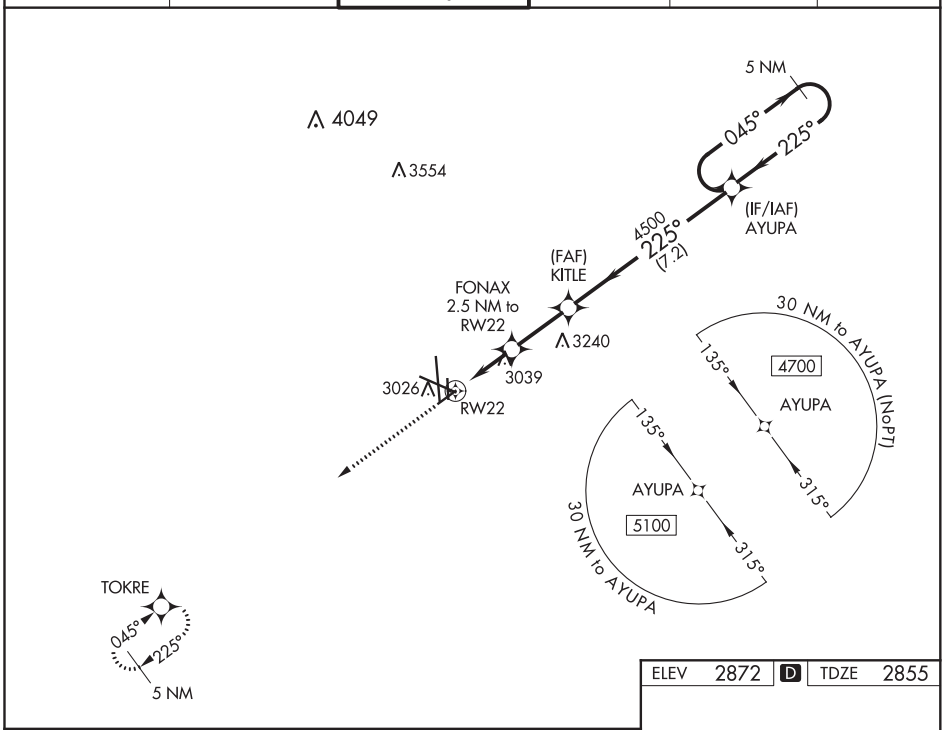
RNAV (GPS) RWY 22
MIDLAND INTL AIR AND SPACE PORT (MAF)

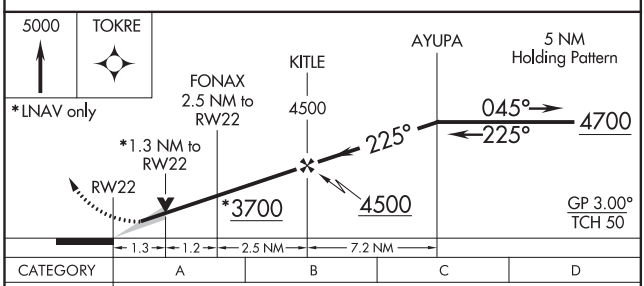
RNP APCH.

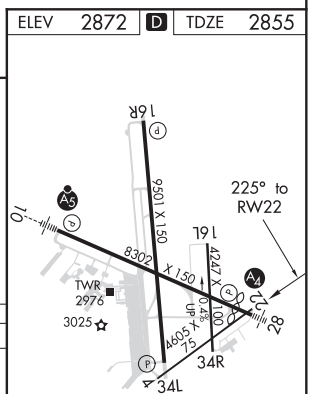
ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C or above 25°C. Circling Rwy 16L NA at night.

MISSED APPROACH: Climb to 5000 direct TOKRE and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95







CATEGORY	A	B	C	D
LPV DA	3055-¾ 200 (200-¾)			
LNAV/VNAV DA	3317-1⅜ 462 (500-1⅜)			
LNAV MDA	3320-1 465 (500-1)		3320-1⅜ 465 (500-1⅜)	
C CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)

REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L

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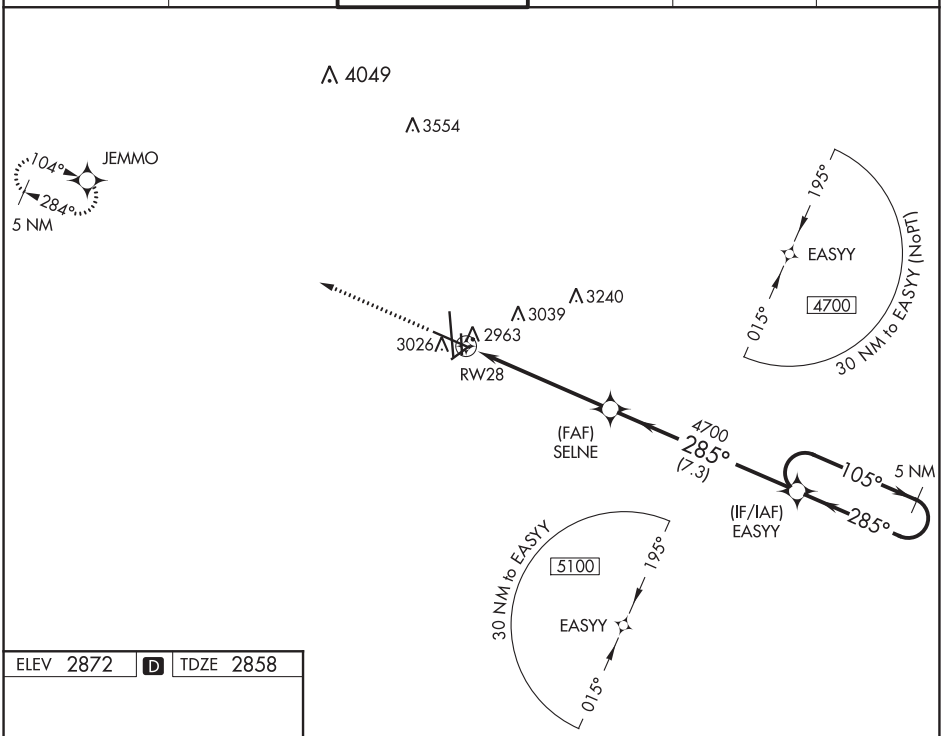
RNAV (GPS) RWY 28

MIDLAND INTL AIR AND SPACE PORT (MAF)

WAAS CH 81816 W28A	APP CRS 285°	Rwy ldg 7610 TDZE 2858 Apt Elev 2872

ASR	For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 25°C (77°F). Circling Rwy 16L NA at night. DME/DME RNP-0.3 NA. Inop table does not apply to LPV all Cats.	MALS	MISSED APPROACH: Climb to 5000 direct JEMMO and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95



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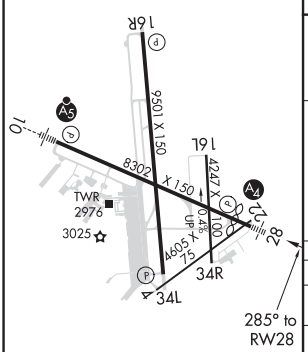
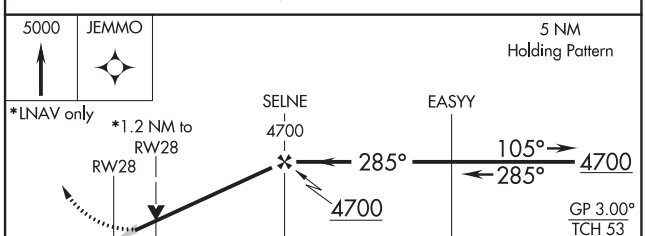
ELEV 2872 | D | TDZE 2858



REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L



CATEGORY	A	B	C	D
LPV DA	3058-¾ 200 (200-¾)			
LNAV/VNAV DA	3271-1⅛ 413 (500-1⅛)			
LNAV MDA	3280-¾ 422 (500-¾)		3280-1 422 (500-1)	
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)

MIDLAND, TEXAS
Amdt 2B 22JUN17

31°57′N-102°12′W

MIDLAND INTL AIR AND SPACE PORT (MAF)

RNAV (GPS) RWY 28

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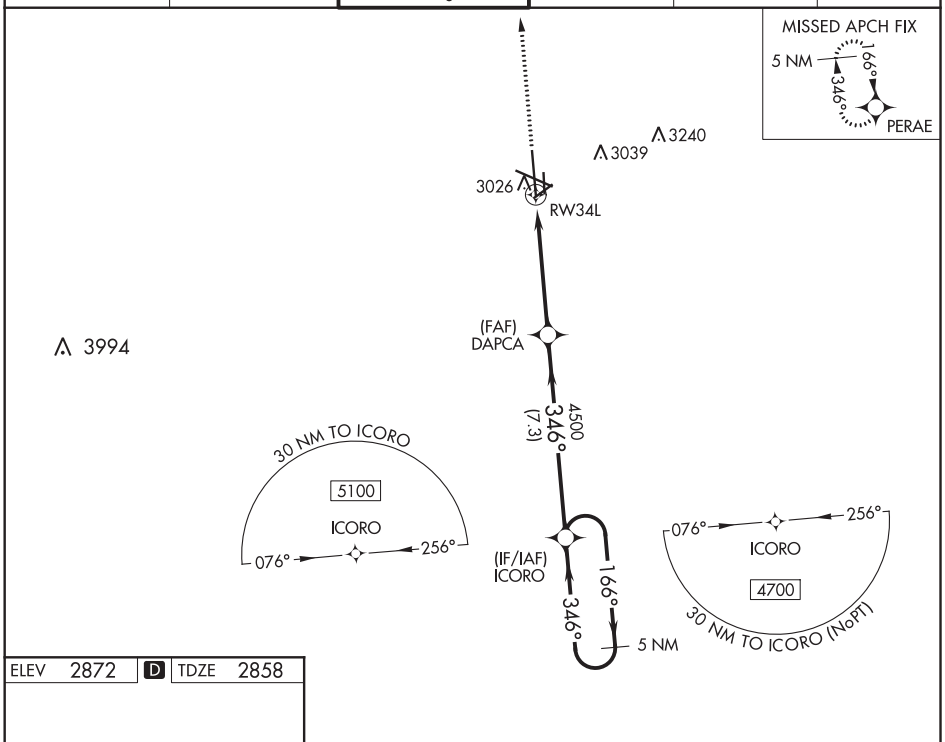
WAAS CH 66029 W34A	APP CRS 346°	Rwy ldg 9501 TDZE 2858 Apt Elev 2872

RNAV (GPS) RWY 34L
MIDLAND INTL AIR AND SPACE PORT (MAF)

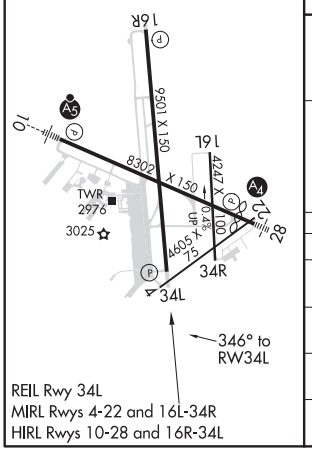
T ASR For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 26°C (78°F). Circling Rwy 16L NA at night. DME/DME RNP-0.3 NA.

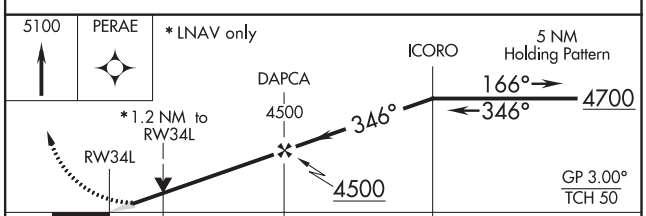
MISSED APPROACH: Climb to 5100 direct PERAE and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95



ELEV 2872 D TDZE 2858





CATEGORY	A	B	C	D
LPV DA	3058- ¾ 200 (200- ¾)			
LNAV/VNAV DA	3203- 1⅛ 345 (400- 1⅛)			
LNAV MDA	3280-1 422 (500-1)		3280-1¼ 422 (500- 1¼)	
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)

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MIDLAND, TEXAS | AL-258 (FAA) | 20142

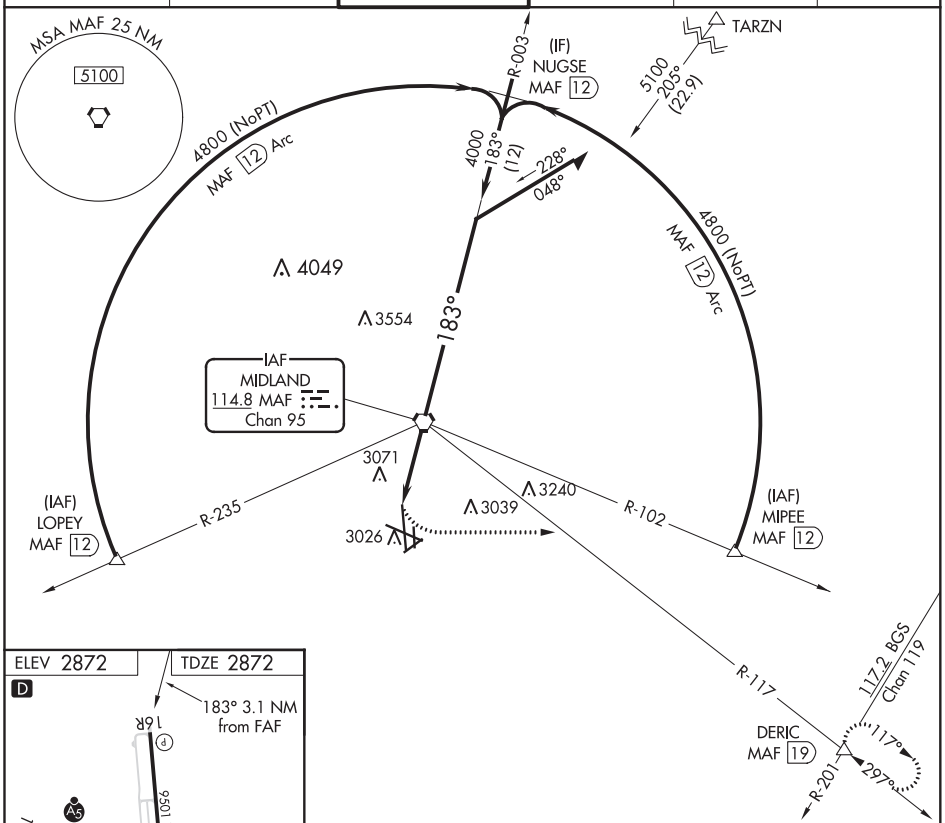
VORTAC MAF	APP CRS	Rwy ldg	9501
114.8	183°	TDZE	2872
Chan 95		Apt Elev	2872

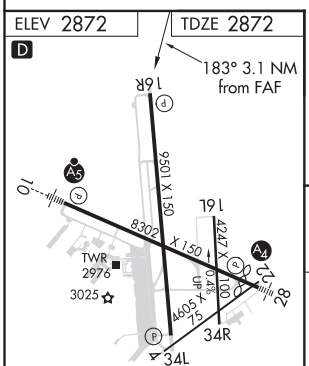
VOR or TACAN RWY 16R
MIDLAND INTL AIR AND SPACE PORT (MAF)

T A ASR — Rwy 16R helicopter visibility reduction below ¾ SM NA. Circling Rwy 16L NA at night.

MISSED APPROACH: Climbing left turn to 4800 on heading 090° and on MAF VORTAC R-117 to DERIC INT/MAF 19 DME and hold.

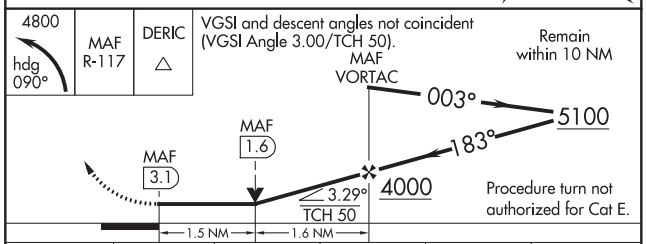
ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95





REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L

FAF to MAP 3.1 NM					
Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02



CATEGORY	A	B	C	D	E
S-16R	3400-1 528 (600-1)		3400-1½ 528 (600-1½)		
CIRCLING	3440-1 568 (600-1)		3440-1½ 568 (600-1½)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)

MIDLAND, TEXAS
Amdt 23C 17AUG17

31°57′N-102°12′W

MIDLAND INTL AIR AND SPACE PORT (MAF)
VOR or TACAN RWY 16R

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VORTAC MAF	APP CRS	Rwy ldg	9501
114.8	357°	TDZE	2858
Chan 95		Apt Elev	2872

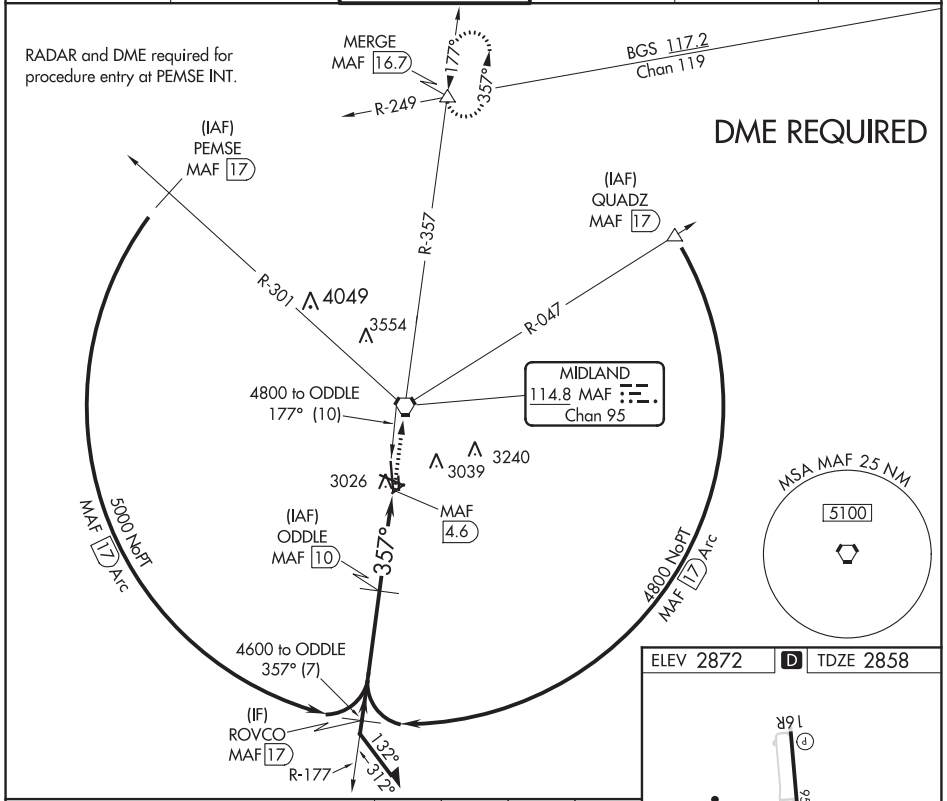
VOR or TACAN RWY 34L

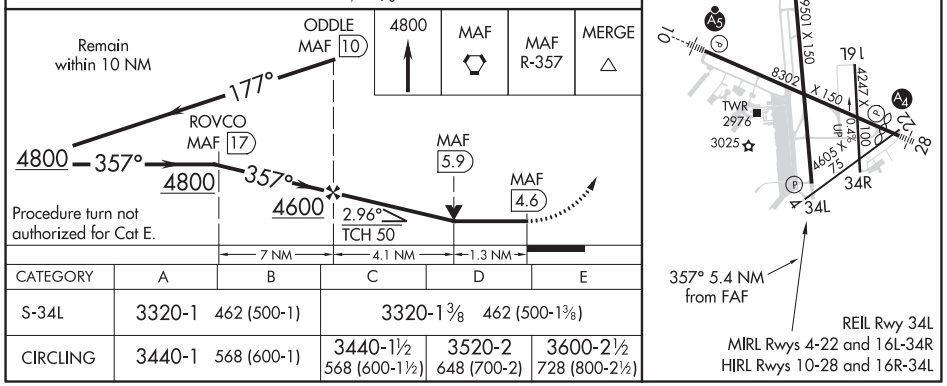
MIDLAND INTL AIR AND SPACE PORT (MAF)

T A ASR — Circling Rwy 16L NA at night. Rwy 34L helicopter visibility reduction below ¾ SM NA. DME required.

MISSED APPROACH: Climb to 4800 direct MAF VORTAC and on MAF VORTAC R-357 to MERGE INT/MAF 16.7 DME and hold.

ATIS	MIDLAND APP CON★	MIDLAND TOWER★	GND CON	CLNC DEL	UNICOM
126.8 235.975	124.6 290.4	118.7 (CTAF) L 273.45	121.9 348.6	118.05 317.65	122.95





CATEGORY	A	B	C	D	E
S-34L	3320-1	462 (500-1)	3320-1⅜	462 (500-1⅜)	
CIRCLING	3440-1	568 (600-1)	3440-1½ 568 (600-1½)	3520-2 648 (700-2)	3600-2½ 728 (800-2½)

REIL Rwy 34L
MIRL Rwys 4-22 and 16L-34R
HIRL Rwys 10-28 and 16R-34L

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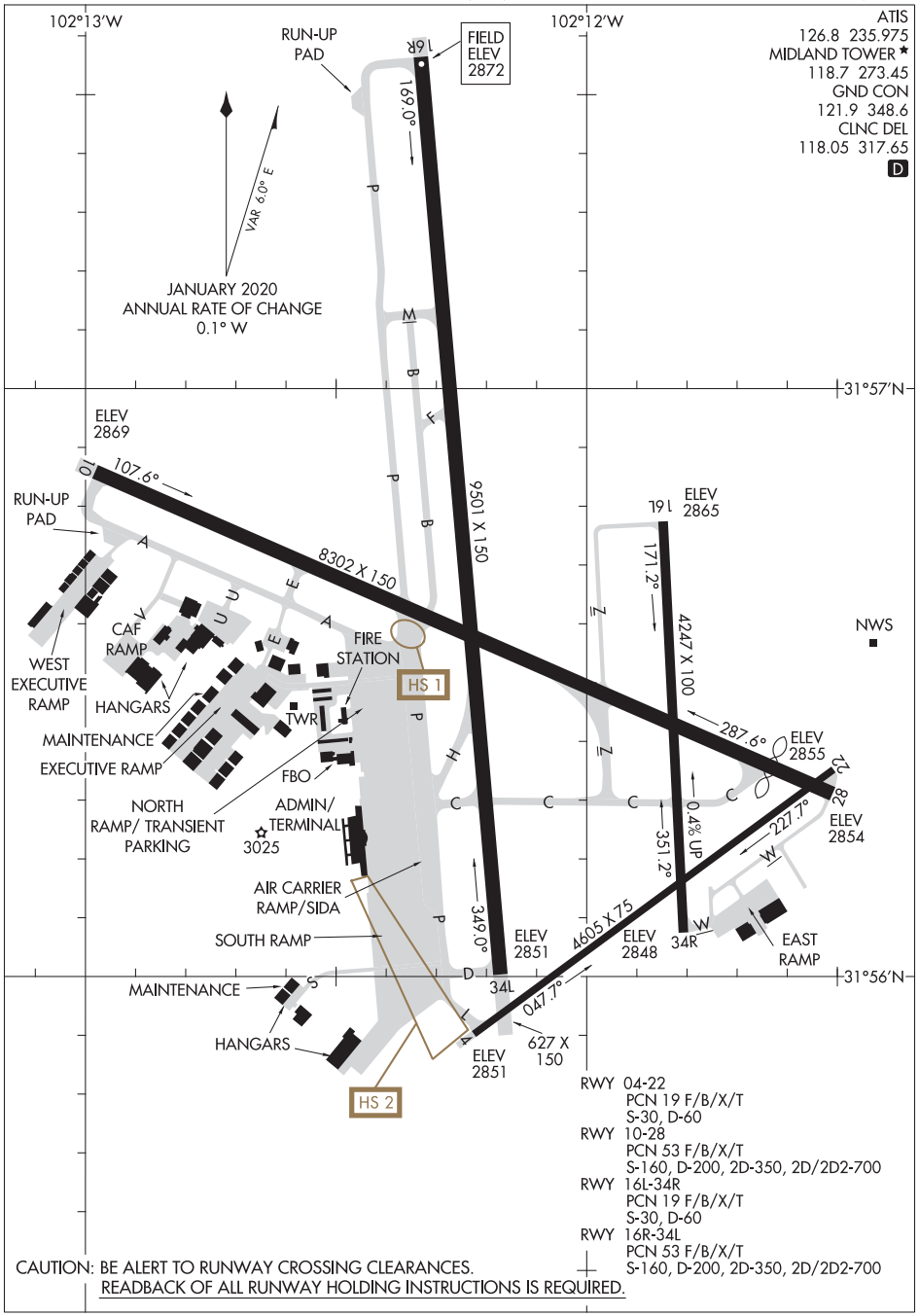
20086

AIRPORT DIAGRAM

MIDLAND INTL AIR AND SPACE PORT (MAF)

AL-258 (FAA)

MIDLAND, TEXAS



RWY 04-22
PCN 19 F/B/X/T
S-30, D-60

RWY 10-28
PCN 53 F/B/X/T
S-160, D-200, 2D-350, 2D/2D2-700

RWY 16L-34R
PCN 19 F/B/X/T
S-30, D-60

RWY 16R-34L
PCN 53 F/B/X/T
S-160, D-200, 2D-350, 2D/2D2-700

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

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AIRPORT DIAGRAM
20086
MIDLAND, TEXAS
MIDLAND INTL AIR AND SPACE PORT (MAF)

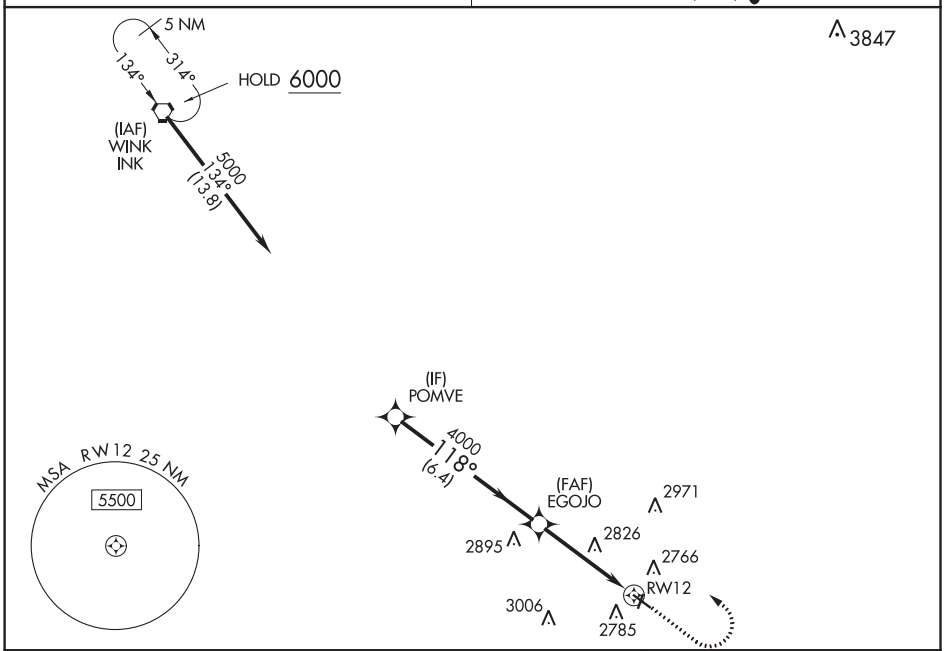
WAAS CH 57927 W12A	APP CRS 118°	Rwy ldg 4268 TDZE 2609 Apt Elev 2615

RNAV (GPS) RWY 12
ROY HURD MEMORIAL (EØ1)

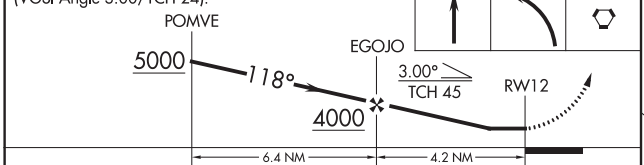
DME/DME RNP-0.30 NA. Obtain local altimeter setting on CTAF; when not received, use Wink altimeter setting. Night landing: Rwy 12 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climb to 3200 then climbing left turn to 6000 direct INK VORTAC and hold.

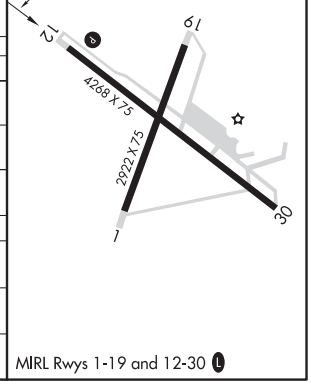
FORT WORTH CENTER	UNICOM
133.1 298.95	122.8 (CTAF) L



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 24).



ELEV 2615 TDZE 2609



MIRL Rwys 1-19 and 12-30 L

CATEGORY	A	B	C	D
LP MDA	3100-1	491 (500-1)	3100-1⅜ 491 (500-1⅜)	NA
LNAV MDA	3120-1	511 (600-1)	3120-1⅜ 511 (600-1⅜)	NA
CIRCLING	3280-1	665 (700-1)	3280-1¾ 665 (700-1¾)	NA
WINK ALTIMETER SETTING MINIMUMS				
LP MDA	3180-1	571 (600-1)	3180-1⅝ 571 (600-1⅝)	NA
LNAV MDA	3200-1	591 (600-1)	3200-1¾ 591 (600-1¾)	NA
CIRCLING	3360-1	745 (800-1)	3360-2¼ 745 (800-2¼)	NA

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MONAHANS, TEXAS

AL-6748 (FAA)

19115

WAAS CH 78027 W30A	APP CRS 298°	Rwy ldg 4268 TDZE 2613 Apt Elev 2615

RNAV (GPS) RWY 30

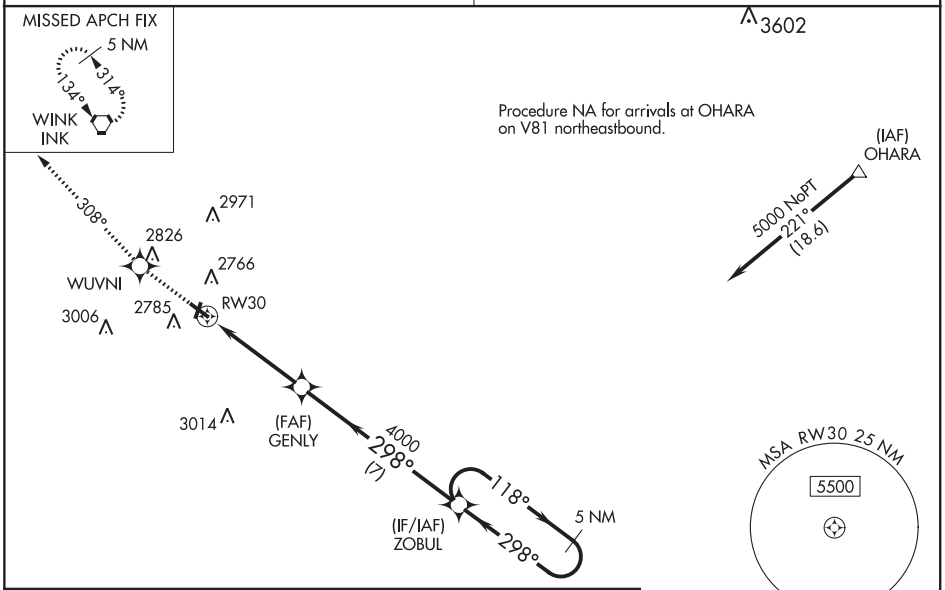
ROY HURD MEMORIAL (EØ1)

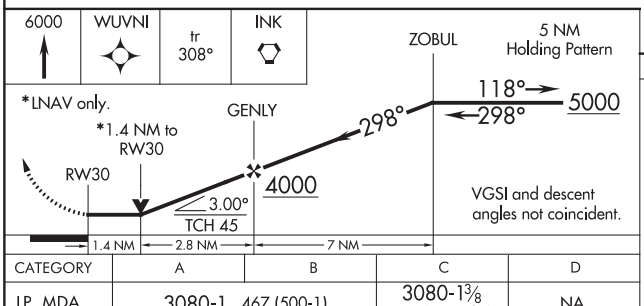
DME/DME RNP-0.3 NA. VDP NA with Wink altimeter setting. Obtain local altimeter setting on CTAF, when not received, use Wink altimeter setting. Night landing: Rwy 12 NA. Helicopter visibility reduction below ¾ SM NA.

NA

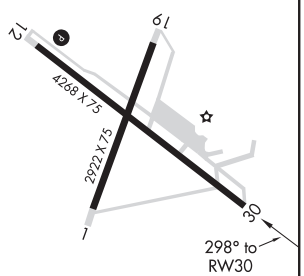
MISSED APPROACH: Climb to 6000 direct WUVNI and on track 308 to INK VORTAC and hold.

FORT WORTH CENTER	UNICOM
133.1 298.95	122.8 (CTAF) L





ELEV 2615	TDZE 2613



MIRL Rwys 1-19 and 12-30 L

CATEGORY	A	B	C	D
LP MDA	3080-1 467 (500-1)		3080-1⅜ 467 (500-1⅜)	NA
LNAV MDA	3100-1 487 (500-1)		3100-1⅜ 487 (500-1⅜)	NA
CIRCLING	3280-1 665 (700-1)		3280-1¾ 665 (700-1¾)	NA
WINK ALTIMETER SETTING MINIMUMS				
LP MDA	3160-1 547 (600-1)		3160-1⅝ 547 (600-1⅝)	NA
LNAV MDA	3180-1 567 (600-1)		3180-1⅝ 567 (600-1⅝)	NA
CIRCLING	3360-1 745 (800-1)		3360-2¼ 745 (800-2¼)	NA

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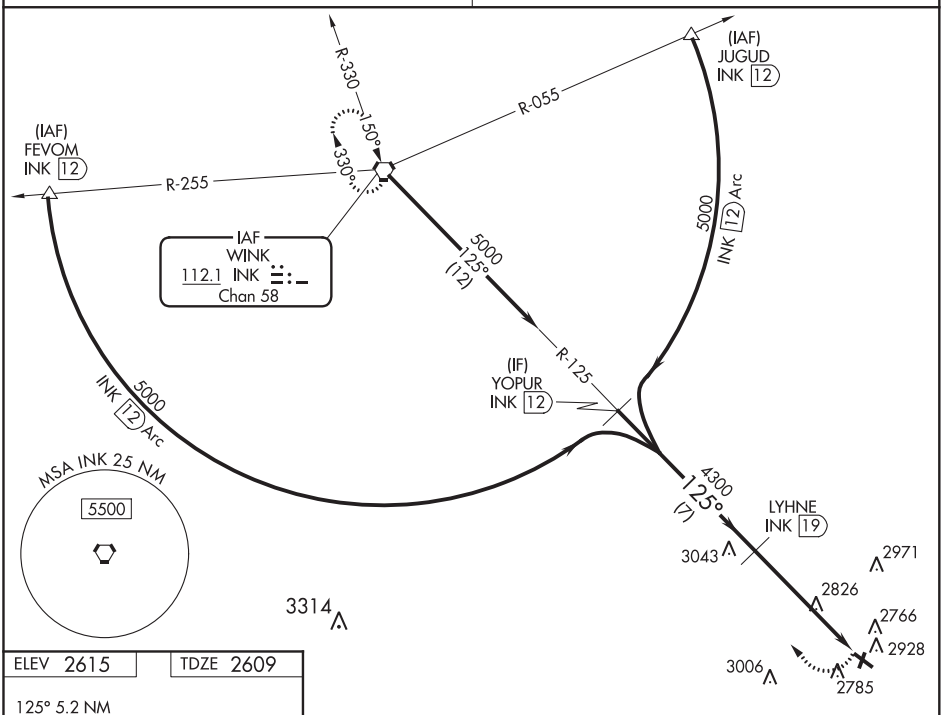
VOR/DME RWY 12
ROY HURD MEMORIAL (EØ1)

VORTAC INK	APP CRS	Rwy ldg	4268
112.1	125°	TDZE	2609
Chan 58		Apt Elev	2615

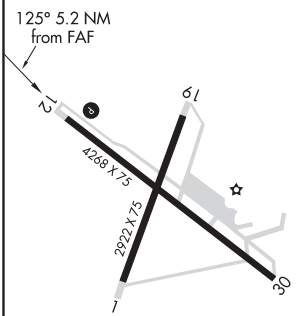
Obtain local altimeter setting on CTAF; when not received, use Wink altimeter setting. Night landing: Rwy 12 NA. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 5000 direct INK VORTAC and hold.

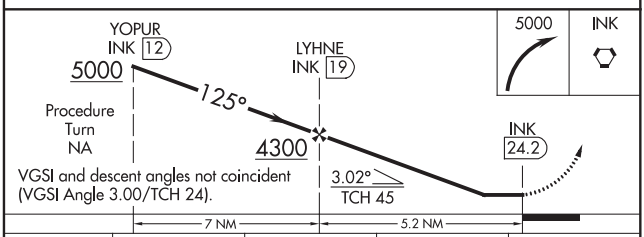
FORT WORTH CENTER	UNICOM
133.1 298.95	122.8 (CTAF) L



ELEV 2615	TDZE 2609



MIRL Rwys 1-19 and 12-30 L



CATEGORY	A	B	C	D
S-12	3340-1 731 (800-1)	3340-1¼ 731 (800-1¼)	3340-2 731 (800-2)	NA
CIRCLING	3340-1 725 (800-1)	3340-1¼ 725 (800-1¼)	3340-2 725 (800-2)	NA
WINK ALTIMETER SETTING MINIMUMS				
S-12	3420-1 811 (900-1)	3420-1¼ 811 (900-1¼)	3420-2½ 811 (900-2½)	NA
CIRCLING	3420-1 805 (900-1)	3420-1¼ 805 (900-1¼)	3420-2½ 805 (900-2½)	NA

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NEW BRAUNFELS, TEXAS

AL-6080 (FAA)

20086

RNAV (GPS) RWY 13

NEW BRAUNFELS RGNL (BAZ)

WAAS CH 82435 W13A	APP CRS 128°	Rwy ldg 6503 TDZE 658 Apt Elev 658

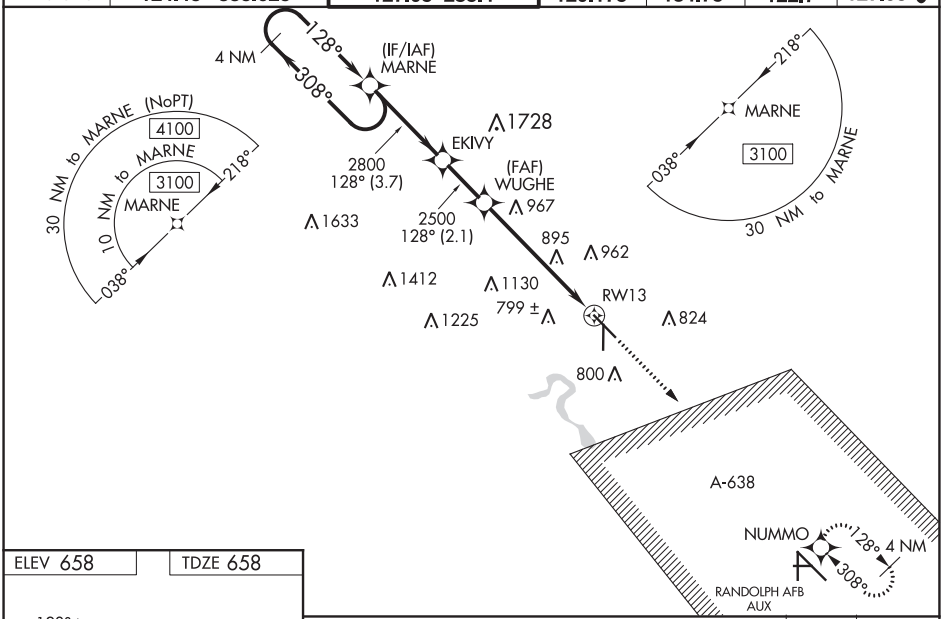
RNP APCH.

When local altimeter setting not received, use San Marcos Rgnl altimeter setting; increase LPV DA to 951 feet, LNAV/VNAV DA to 1169 feet; increase all MDAs 60 feet and visibility LNAV and Circling Cat C/D ¼ SM. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -6°C (22°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using San Marcos altimeter setting. For inop ALS, increase LNAV/VNAV visibility to 1⅜ SM. Inop table does not apply to LPV all Cats and LNAV Cats A/B. For inop ALS when using San Marcos Rgnl altimeter setting, increase LPV all Cats visibility to ⅞ SM and LNAV/VNAV all Cats visibility to 1⅜ SM. When using San Marcos Rgnl altimeter setting, inop table does not apply to LNAV Cats A/B.

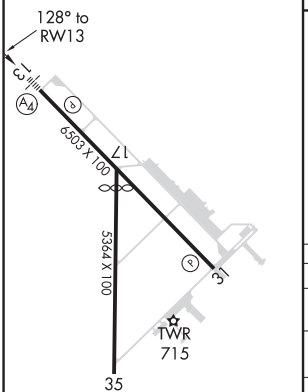
MALS

MISSED APPROACH: Climb to 3500 direct NUMMO and hold, continue climb-in-hold to 3500.

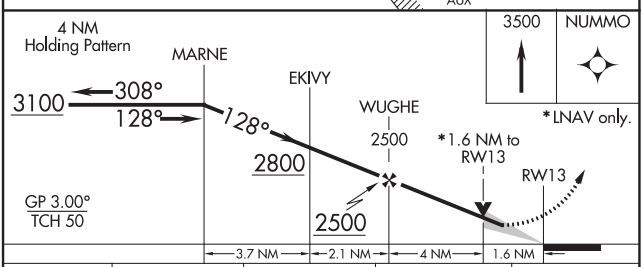
ATIS	SAN ANTONIO APP CON	NEW BRAUNFELS TOWER *	GND CON	CLNC DEL	UNICOM	CTAF
119.325	124.45 335.625	127.05 285.4	120.175	134.75	122.7	127.05 L



ELEV 658 | TDZE 658



REIL Rwy 13
MIRL Rwys 13-31 and 17-35 L



CATEGORY	A	B	C	D
LPV DA	908-¾ 250 (300-¾)			
LNAV/VNAV DA	1126-1¼ 468 (500-1¼)			
LNAV MDA	1220-1 562 (600-1)		1220-1⅜ 562 (600-1⅜)	
C CIRCLING	1220-1 562 (600-1)	1240-1 582 (600-1)	1280-1¾ 622 (700-1¾)	1320-2 662 (700-2)

NEW BRAUNFELS, TEXAS
Amdt 1A 08NOV18

29°42'N-98°02'W

NEW BRAUNFELS RGNL (BAZ)
RNAV (GPS) RWY 13

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APP CRS	Rwy ldg	4842
173°	TDZE	651
	Apt Elev	658

RNAV (GPS) RWY 17
NEW BRAUNFELS RGNL (BAZ)

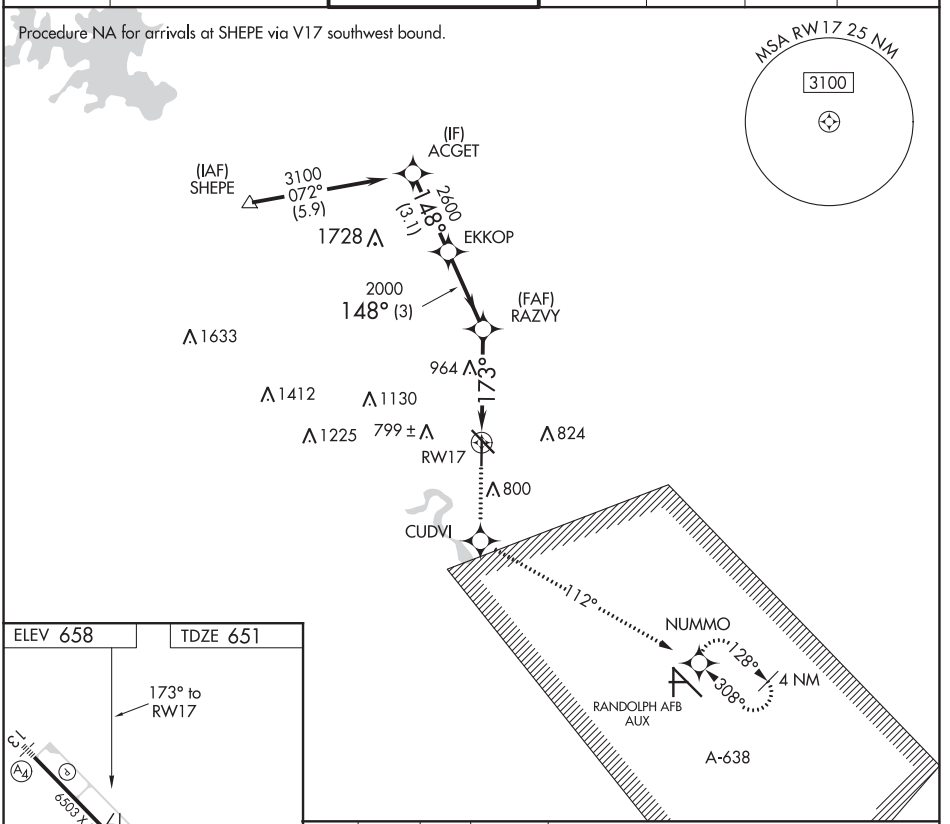
RNP APCH.

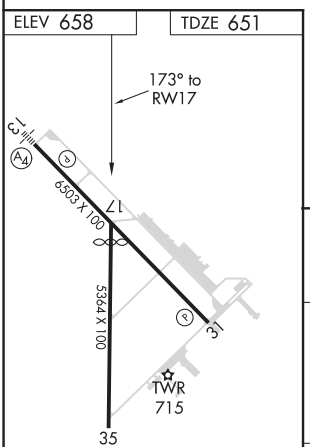
When local altimeter setting not received, use San Marcos Rgnl altimeter setting and increase all MDAs 60 feet and visibility Cat C ¼ SM.
VDP NA when using San Marcos Rgnl altimeter setting.

MISSED APPROACH: Climb to 3500 direct CUDVI and via 112° track to NUMMO and hold, continue climb-in-hold to 3500.

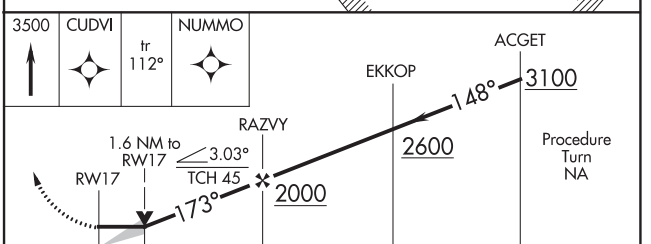
ATIS	SAN ANTONIO APP CON	NEW BRAUNFELS TOWER ★	GND CON	CLNC DEL	UNICOM	CTAF
119.325	124.45 335.625	127.05 285.4	120.175	134.75	122.7	127.05 (L)

Procedure NA for arrivals at SHEPE via V17 southwest bound.





REIL Rwy 13
MIRL Rwys 13-31 and 17-35 (L)



CATEGORY	A	B	C	D
LNAV MDA	1220-1 569 (600-1)		1220-1⅝ 569 (600-1⅝)	1220-1¾ 569 (600-1¾)

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NEW BRAUNFELS, TEXAS

AL-6080 (FAA)

20086

RNAV (GPS) RWY 31

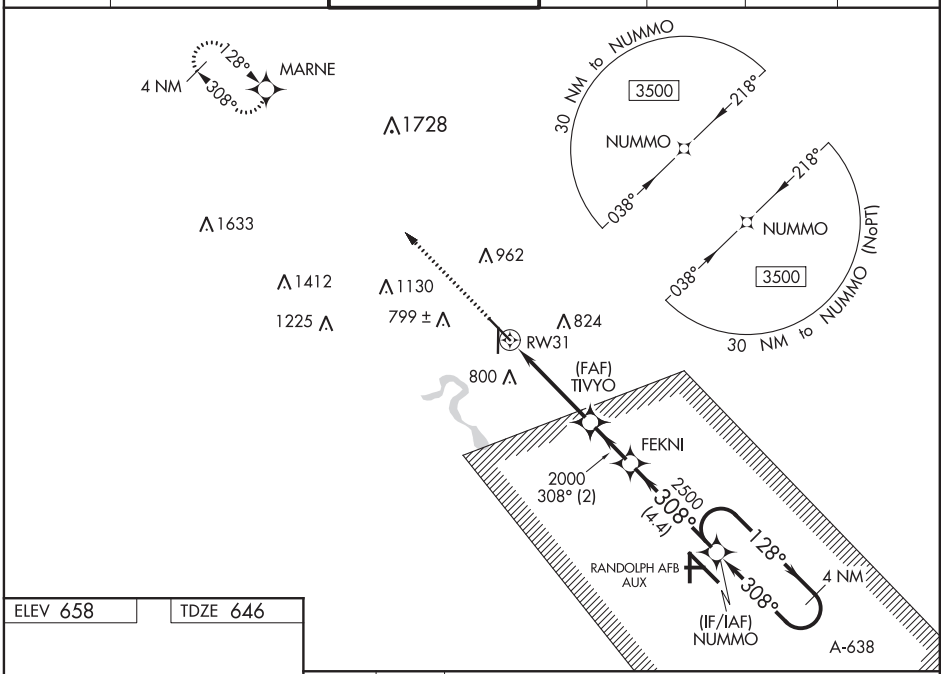
NEW BRAUNFELS RGNL (BAZ)

WAAS CH 86435 W31A	APP CRS 308°	Rwy ldg 6503	TDZE 646	Apt Elev 658

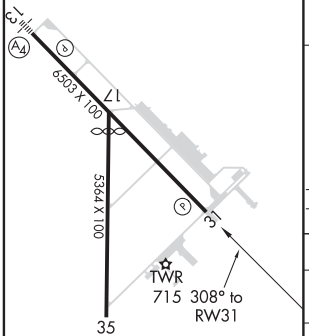
T A DME/DME RNP-0.3 NA. When local altimeter setting not received, use San Marcos altimeter setting and increase all DA 43 feet and all MDA 60 feet, and increase LPV all Cats, LNAV/VNAV all Cats, and Circling Cats C and D visibility ¼ mile, and LNAV Cats C and D visibility ⅛ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -5°C (23°F) or above 54°C (130°F). Baro-VNAV and VDP NA when using San Marcos altimeter setting. Helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 3100 direct MARNE and hold.

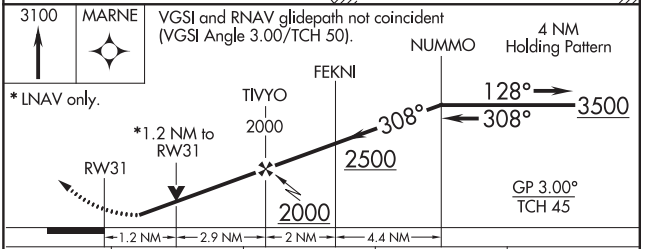
ATIS	SAN ANTONIO APP CON	NEW BRAUNFELS TOWER ★	GND CON	CLNC DEL	UNICOM	CTAF
119.325	124.45 335.625	127.05 285.4	120.175	134.75	122.7	127.05 L



ELEV 658	TDZE 646



REIL Rwy 13
MIRL Rwys 13-31 and 17-35 L



CATEGORY	A	B	C	D
LPV DA	896-¾ 250 (300-¾)			
LNAV/VNAV DA	1068-1¾ 422 (500-1¾)			
LNAV MDA	1080-1 434 (500-1)		1080-1¼ 434 (500-1¼)	
C CIRCLING	1100-1 442 (500-1)	1240-1 582 (600-1)	1280-1¾ 622 (700-1¾)	1320-2 662 (700-2)

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 93900 W35A	APP CRS 353°	Rwy ldg 5364 TDZE 650 Apt Elev 658

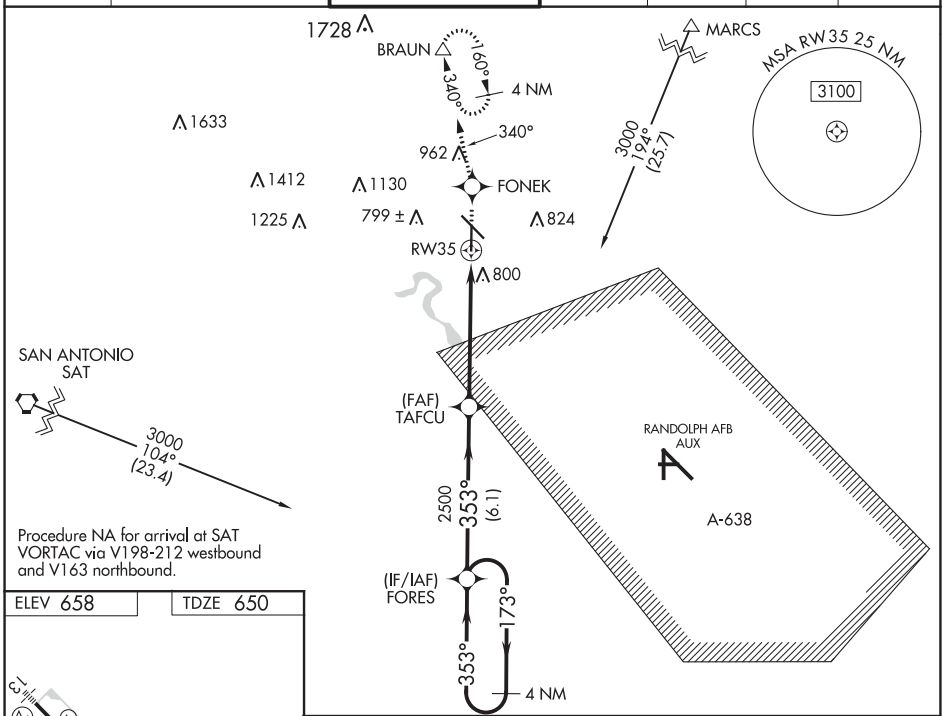
RNAV (GPS) RWY 35
NEW BRAUNFELS RGNL (BAZ)

RNP APCH.

When local altimeter setting not received, use San Marcos Rgnl altimeter setting; increase LPV DA to 972 feet, LNAV/VNAV DA to 1153 feet; increase all MDAs 60 feet and visibility LNAV Cat C and D ¼ SM. Baro-VNAV and VDP NA when using San Marcos Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).

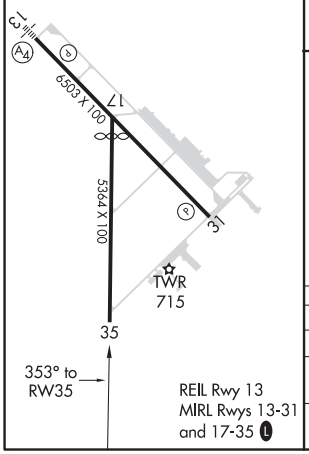
MISSED APPROACH: Climb to 3100 direct FONEK and via 340° track to BRAUN and hold, continue climb-in-hold to 3100.

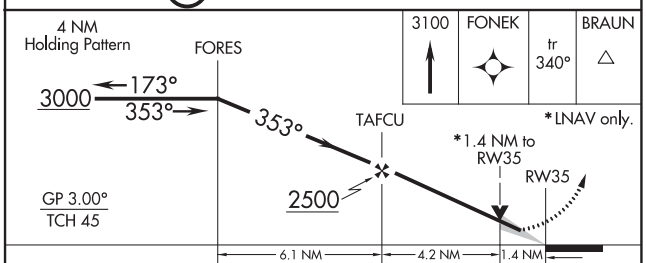
ATIS	SAN ANTONIO APP CON	NEW BRAUNFELS TOWER ★	GND CON	CLNC DEL	UNICOM	CTAF
119.325	124.45 335.625	127.05 285.4	120.175	134.75	122.7	127.05 L



Procedure NA for arrival at SAT VORTAC via V198-212 westbound and V163 northbound.

ELEV 658	TDZE 650





CATEGORY	A	B	C	D
LPV DA	929-1 279 (300-1)			
LNAV/VNAV DA	1110-1¾ 460 (500-1¾)			
LNAV MDA	1140-1 490 (500-1)		1140-1⅜ 490 (500-1⅜)	1140-1½ 490 (500-1½)

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NEW BRAUNFELS, TEXAS

AL-6080 (FAA)

20198

VOR/DME-A

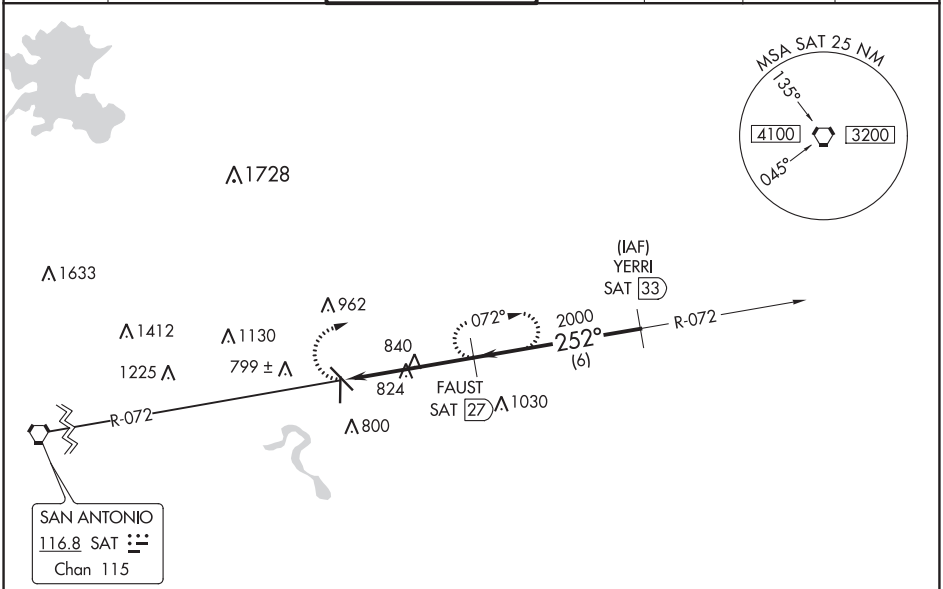
NEW BRAUNFELS RGNL (BAZ)

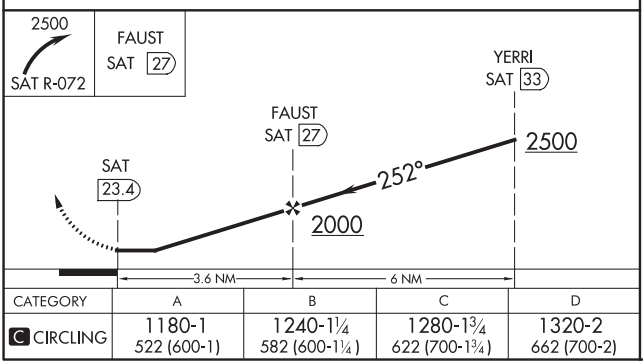
VORTAC SAT	APP CRS	Rwy ldg	N/A
116.8	252°	TDZE	N/A
Chan 115		Apt Elev	658

RADAR required for procedure entry.

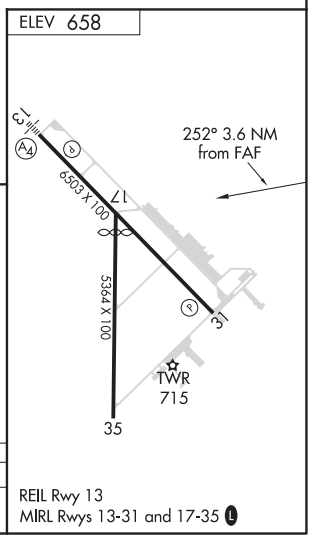
MISSED APPROACH: Climbing right turn to 2500 on SAT R-072 to FAUST/27 DME and hold.

ATIS	SAN ANTONIO APP CON	NEW BRAUNFELS TOWER ★	GND CON	CLNC DEL	UNICOM	CTAF
119.325	124.45 335.625	127.05 285.4	120.175	134.75	122.7	127.05 L





CATEGORY	A	B	C	D
C CIRCLING	1180-1 522 (600-1)	1240-1¼ 582 (600-1¼)	1280-1¾ 622 (700-1¾)	1320-2 662 (700-2)



REIL Rwy 13
MIRL Rwys 13-31 and 17-35 L

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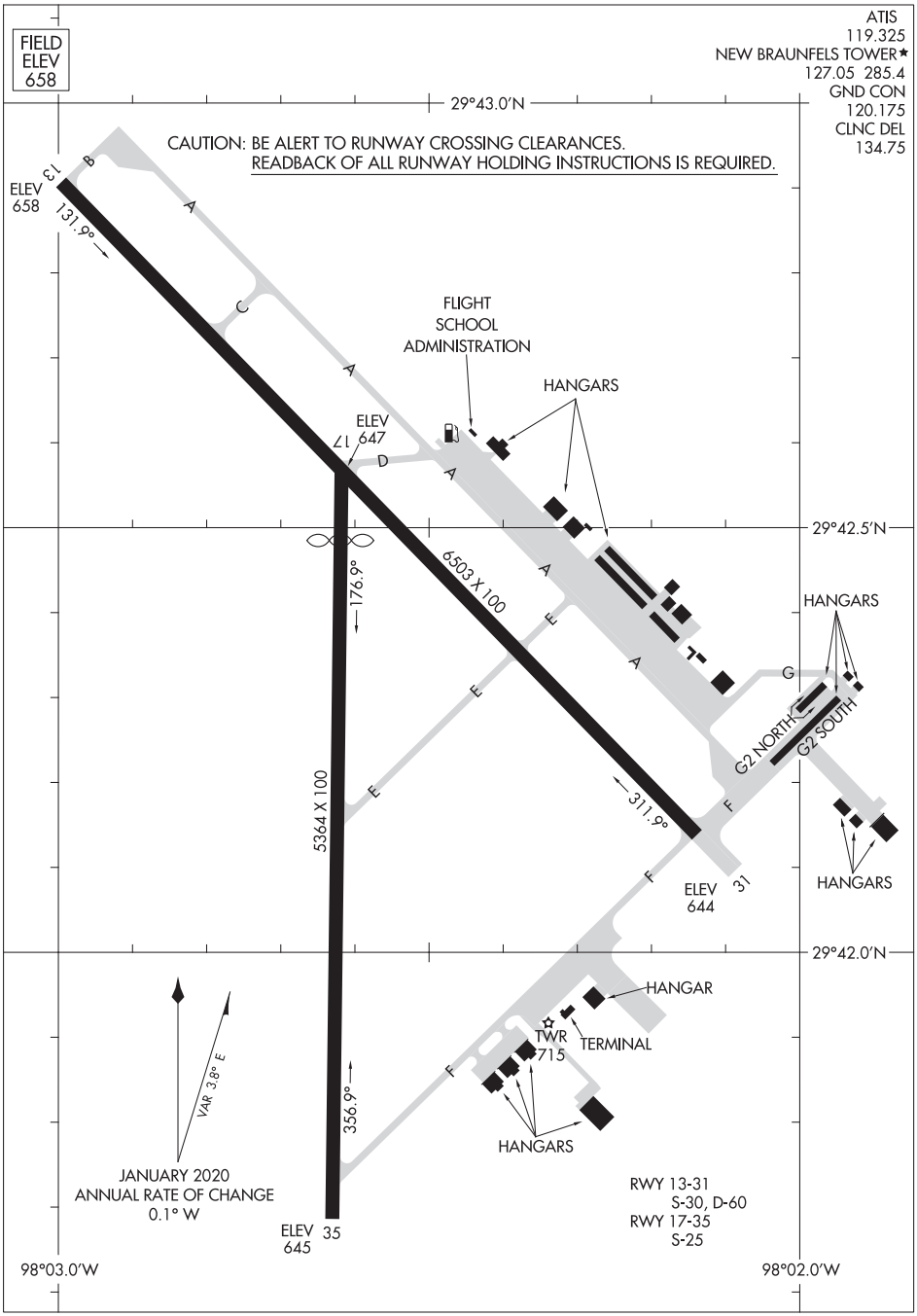

FIELD ELEV 658
ATIS 119.325
NEW BRAUNFELS TOWER★ 127.05 285.4
GND CON 120.175
CLNC DEL 134.75
29°43.0'N
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.
ELEV 658
13
131.9°
FLIGHT SCHOOL ADMINISTRATION
HANGARS
ELEV 647
17
176.9°
6503 X 100
29°42.5'N
HANGARS
G2 NORTH
G2 SOUTH
5364 X 100
311.9°
ELEV 644
31
HANGARS
29°42.0'N
HANGAR
TWR 715
TERMINAL
HANGARS
356.9°
VAR 3.8° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
ELEV 645
35
RWY 13-31
S-30, D-60
RWY 17-35
S-25
98°03.0'W
98°02.0'W

ODESSA, TEXAS | AL-5689 (FAA) | 19003

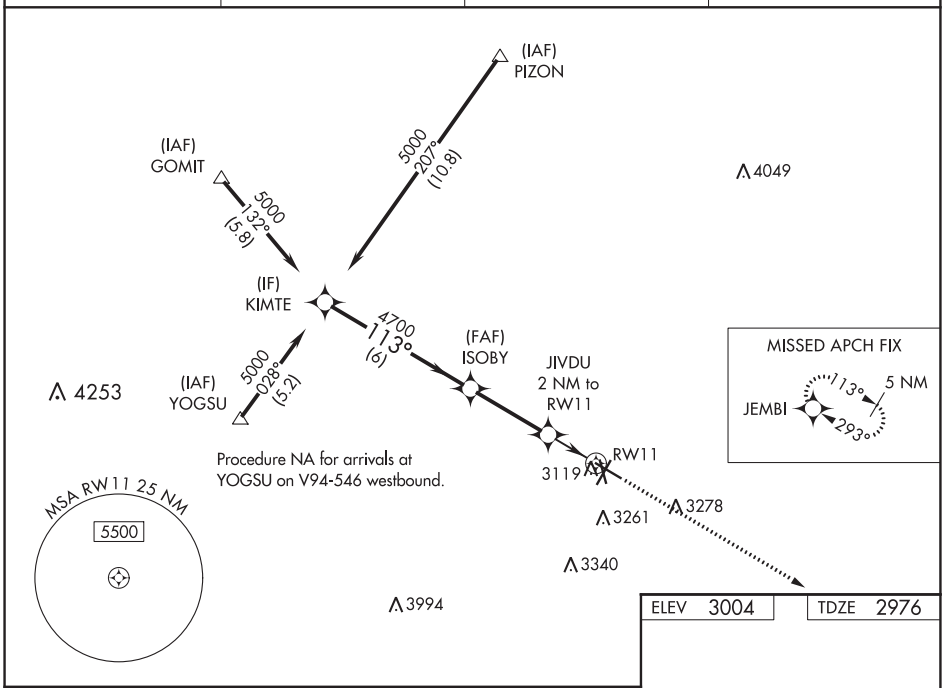
WAAS CH 45618 W11A	APP CRS 113°	Rwy ldg 6200 TDZE 2976 Apt Elev 3004

RNAV (GPS) RWY 11
ODESSA-SCHLEMEYER FIELD (ODO)

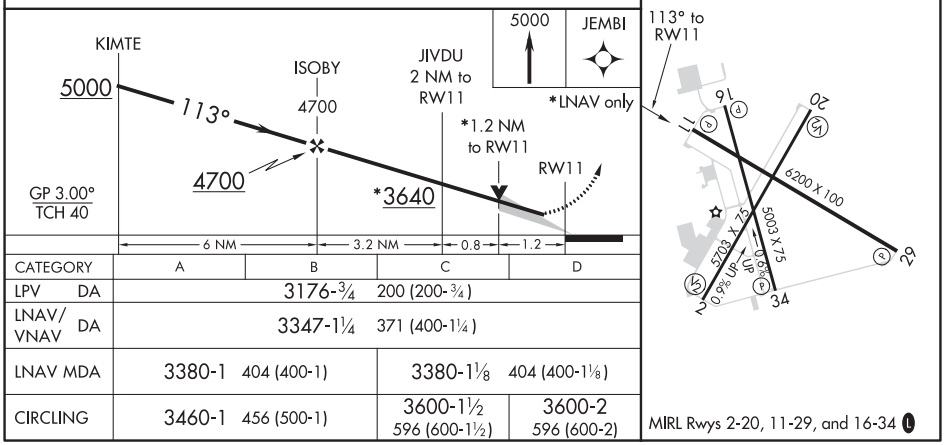
Circling to Rwy 16 and 20 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Circling NA S of Rwys 2 and 34. When local altimeter setting not received use Midland Intl Air and Space Port altimeter setting and increase all DA 41 feet and all MDA 60 feet and increase LNAV/VNAV all Cats visibility ⅛ mile, LNAV Cat C and D and Circling Cat C visibility ¼ mile. VDP NA with Midland Intl Air and Space Port altimeter setting. Baro-VNAV NA when using Midland Intl Air and Space Port altimeter setting.

MISSED APPROACH: Climb to 5000 direct JEMBI and hold.

ASOS	MIDLAND APP CON ★	CLNC DEL	UNICOM
119.275	124.6 256.875	121.7	123.0 (CTAF) L



ELEV 3004	TDZE 2976



CATEGORY	A	B	C	D
LPV DA	3176-¾ 200 (200-¾)			
LNAV/VNAV DA	3347-1¼ 371 (400-1¼)			
LNAV MDA	3380-1 404 (400-1)		3380-1⅛ 404 (400-1⅛)	
CIRCLING	3460-1 456 (500-1)		3600-1½ 596 (600-1½)	3600-2 596 (600-2)

MIRL Rwys 2-20, 11-29, and 16-34 L

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APP CRS	Rwy ldg	5703
202°	TDZE	3004
	Apt Elev	3004

AL-5689 (FAA)

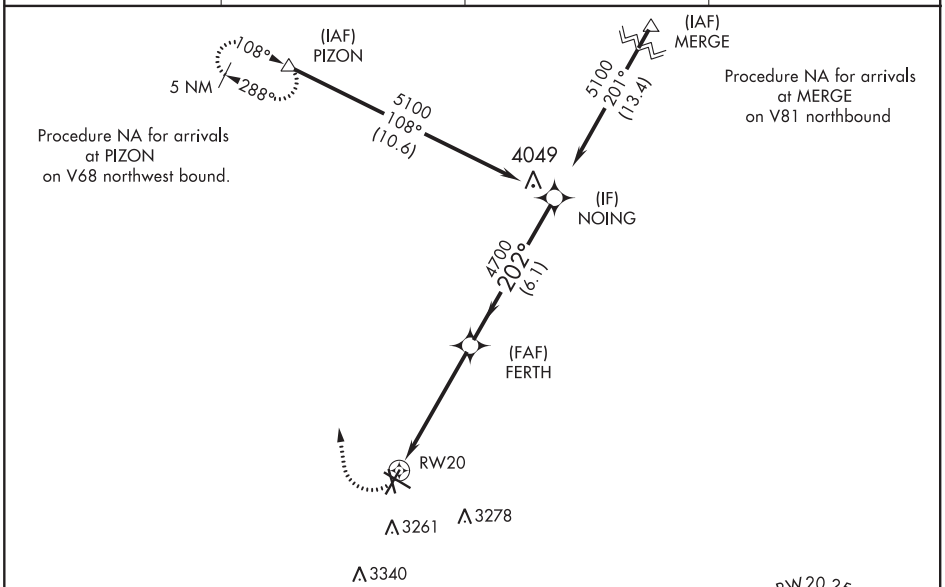
RNAV (GPS) RWY 20
ODESSA-SCHLEMEYER FIELD (ODO)

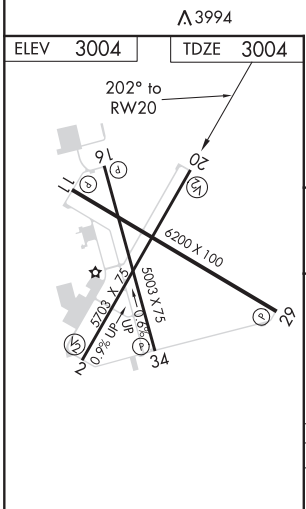
RNP APCH.

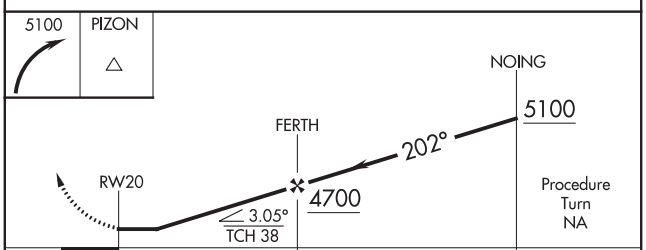
Circling NA south of Rwys 2 and 34. When local altimeter setting not received use Midland Intl Air and Space Port altimeter setting and increase all MDAs 60 feet. Rwy 20 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 5100 direct PIZON and hold.

ASOS	MIDLAND APP CON ★	CLNC DEL	UNICOM
119.275	124.6 256.875	121.7	123.0 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	3460-1 456 (500-1)		3460-1⅜ 456 (500-1⅜)	3460-1½ 456 (500-1½)
CIRCLING	3460-1 456 (500-1)		3460-1½ 456 (500-1½)	3600-2 596 (600-2)

MIRL Rwys 2-20, 11-29, and 16-34 L

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ODESSA, TEXAS

20086

RNAV (GPS) RWY 29

ODESSA-SCHLEMEYER FIELD (ODO)

WAAS CH 86318 W29A	APP CRS 293°	Rwy ldg 6200 TDZE 2980 Apt Elev 3004

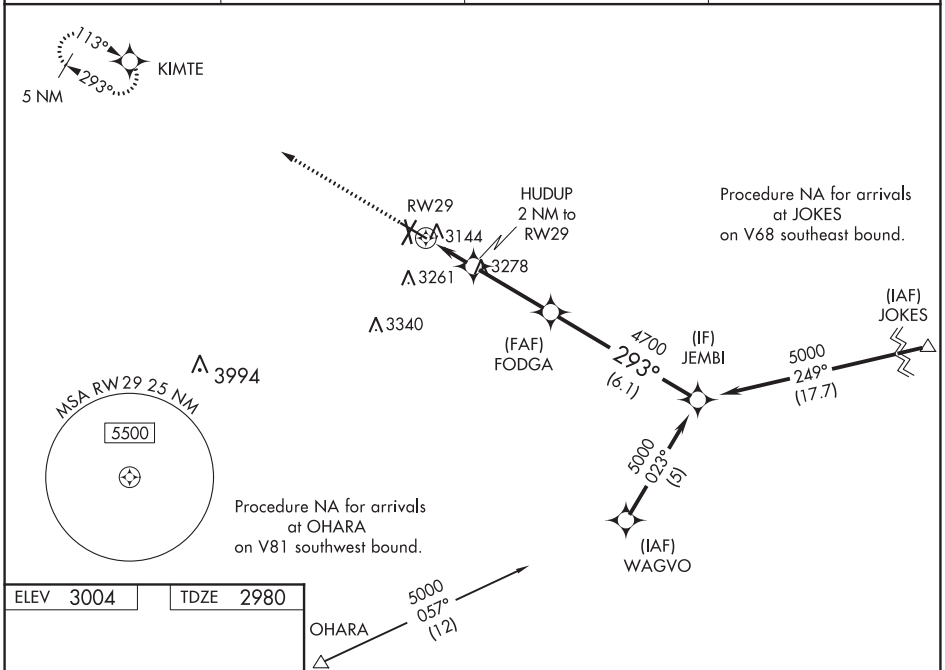
AL-5689 (FAA)

RNP APCH.

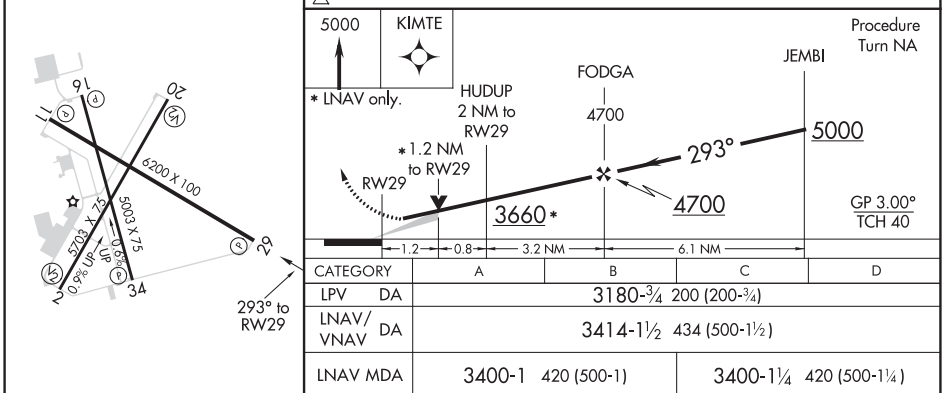
Baro-VNAV NA when using Midland Intl Air and Space Port altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C or above 43°C. Circling NA south of Rwys 2 and 34. When local altimeter setting not received use Midland Intl Air and Space Port altimeter setting and increase all DAs 41 feet and all MDAs 60 feet and increase LNAV Cats C and D visibility ⅛ mile. VDP NA with Midland Intl Air and Space Port altimeter setting.

MISSED APPROACH: Climb to 5000 direct KIMTE and hold.

ASOS	MIDLAND APP CON ★	CLNC DEL	UNICOM
119.275	124.6 256.875	121.7	123.0 (CTAF) L



ELEV 3004	TDZE 2980



CATEGORY	A	B	C	D
LPV DA	3180-¾ 200 (200-¾)			
LNAV/VNAV DA	3414-1½ 434 (500-1½)			
LNAV MDA	3400-1 420 (500-1)		3400-1¼ 420 (500-1¼)	
CIRCLING	3460-1 456 (500-1)		3460-1½ 456 (500-1½)	3600-2 596 (600-2)

MIRL Rwys 2-20, 11-29, and 16-34 L

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VORTAC MAF	APP CRS	Rwy ldg	N/A
114.8	231°	TDZE	N/A
Chan 95		Apt Elev	3004

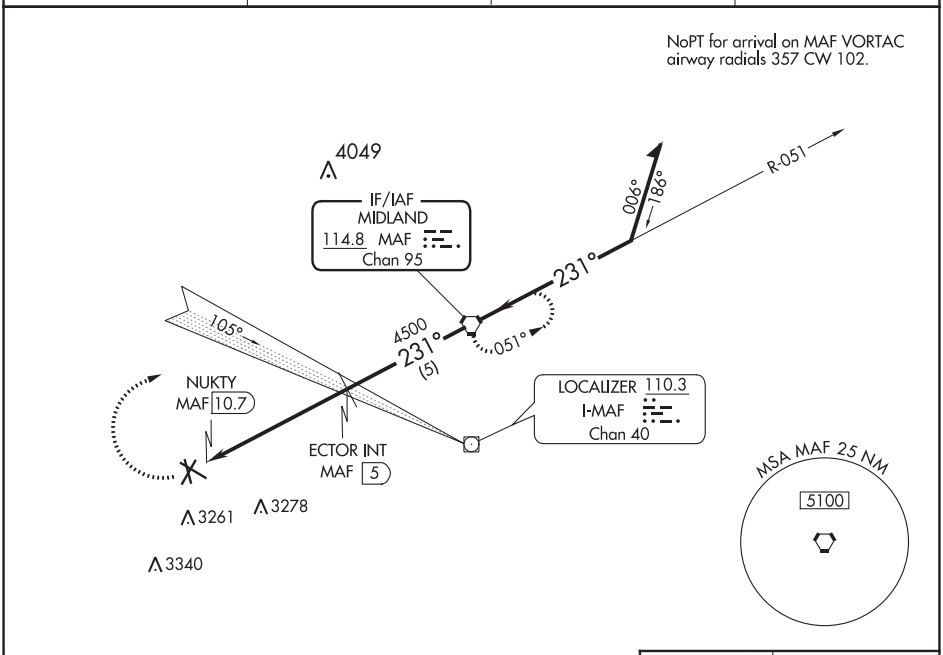
AL-5689 (FAA)

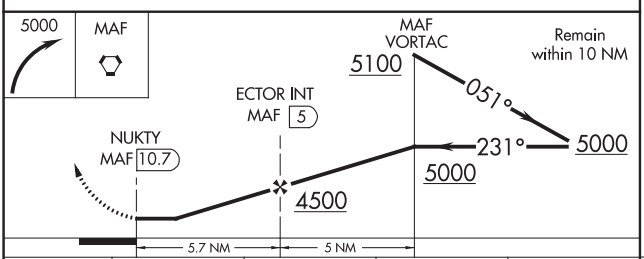
VOR-A
ODESSA-SCHLEMEYER FIELD (ODO)

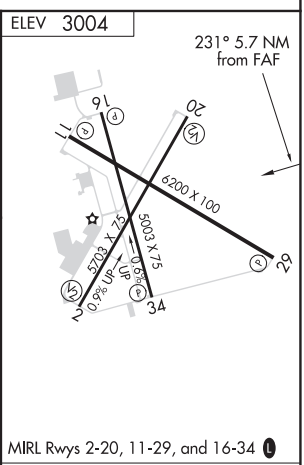
Circling NA south of Rwys 2 and 34. When local altimeter setting not received used Midland Intl Air and Space Port altimeter setting and increase all MDA 60 feet.

MISSED APPROACH: Climbing right turn to 5000 direct MAF VORTAC and hold.

ASOS	MIDLAND APP CON★	CLNC DEL	UNICOM
119.275	124.6 256.875	121.7	123.0 (CTAF) L







CATEGORY	A	B	C	D
CIRCLING	3460-1 456 (500-1)		3460-1½ 456 (500-1½)	3600-2 596 (600-2)

FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

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19087

ORANGE GROVE, TEXAS

ILS or LOC/DME RWY 13

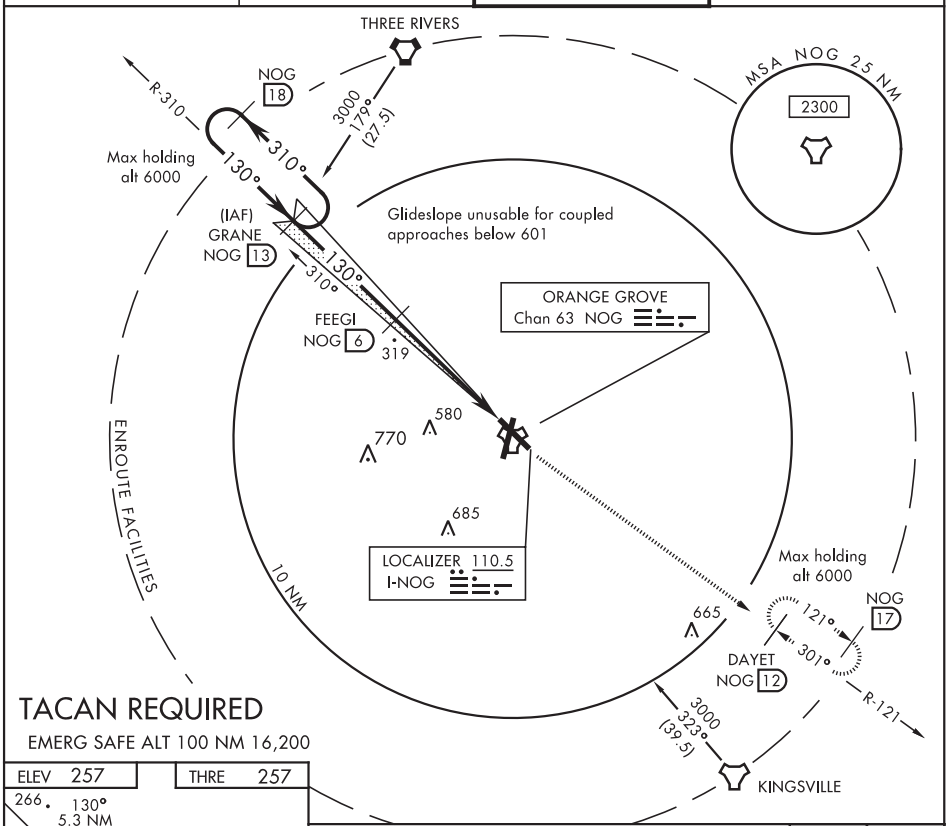
LOC I-NOG	APCH CRS	Rwy ldg / THRE / Arpt Elev
110.5	130°	8001 / 257 / 257

AL-6553 [USN]

ORANGE GROVE NALF (KNOG)

MISSED APPROACH: Climb to 3000 via NOG TACAN R-121 to DAYET and hold.

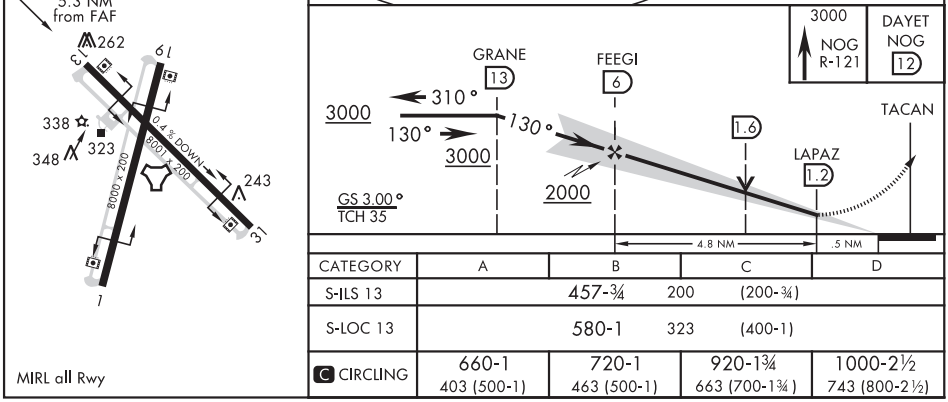
ATIS ★	KINGSVILLE APP CON	ORANGE GROVE TOWER ★	GND CON
254.35	119.90 290.45	281.425 318.85	229.4



TACAN REQUIRED

EMERG SAFE ALT 100 NM 16,200

ELEV 257	THRE 257



CATEGORY	A	B	C	D
S-ILS 13	457-¾ 200 (200-¾)			
S-LOC 13	580-1 323 (400-1)			
C CIRCLING	660-1 403 (500-1)	720-1 463 (500-1)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

MIRL all Rwy

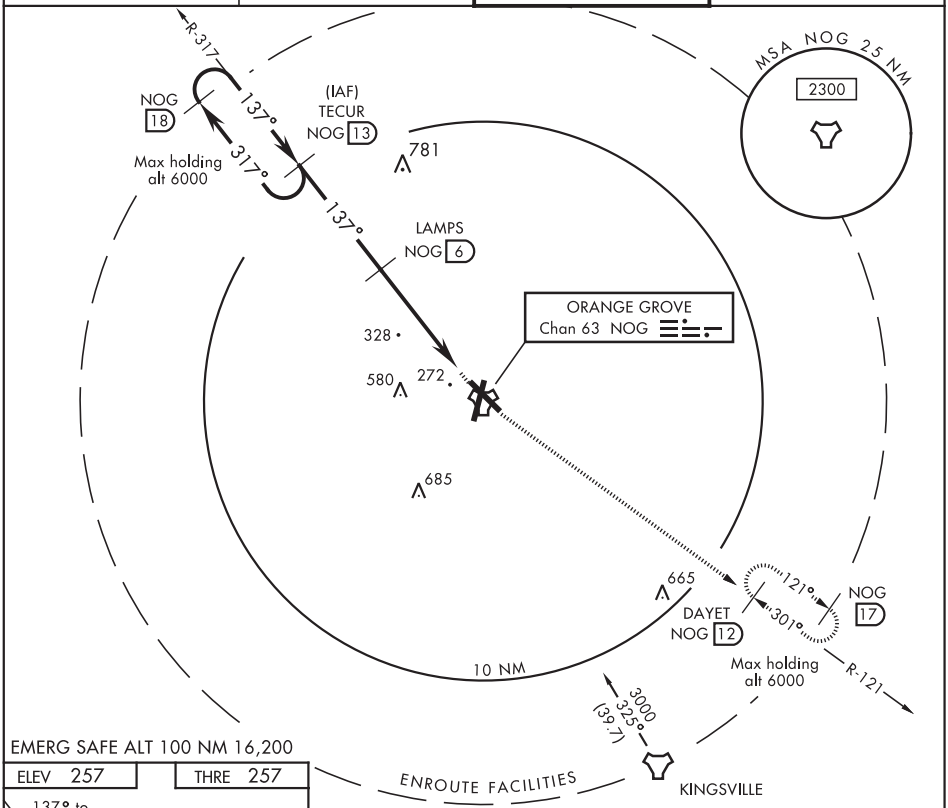
ORANGE GROVE, TEXAS

TACAN RWY 13

TACAN Chan	NOG 63	APCH CRS 137°	Rwy ldg 8001 THRE 257 Arpt Elev 257	AL-6553 [USN]	ORANGE GROVE NALF (KNOG)

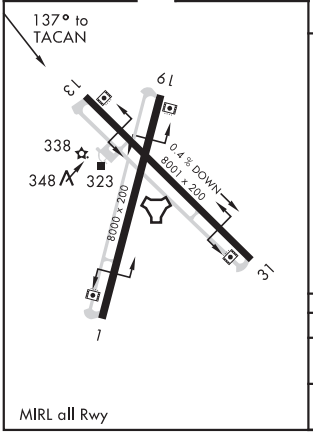
MISSED APPROACH: Climb to 3000 via NOG TACAN R-317 to NOG and NOG R-121 to DAYET and hold.

ATIS ★	KINGSVILLE APP CON	ORANGE GROVE TOWER ★	GND CON
254.35	119.90 290.45	281.425 318.85	229.4

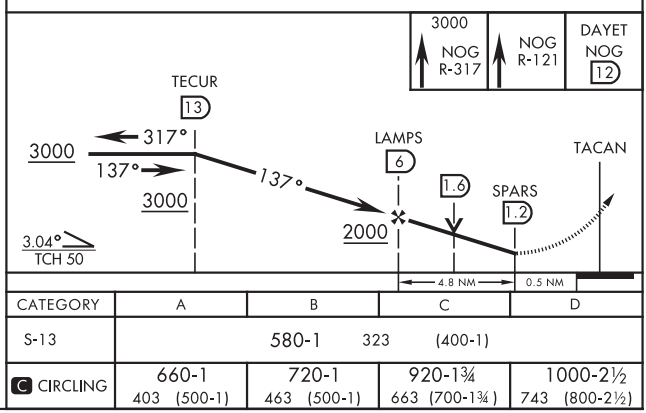


EMERG SAFE ALT 100 NM 16,200

ELEV 257	THRE 257



MIRL all Rwy



CATEGORY	A	B	C	D
S-13	580-1 323 (400-1)			
C CIRCLING	660-1 403 (500-1)	720-1 463 (500-1)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

ORANGE GROVE, TEXAS

Orig 15OCT15

27°54′N-98°03′W

ORANGE GROVE NALF (KNOG)

TACAN RWY 13

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ORANGE GROVE, TEXAS

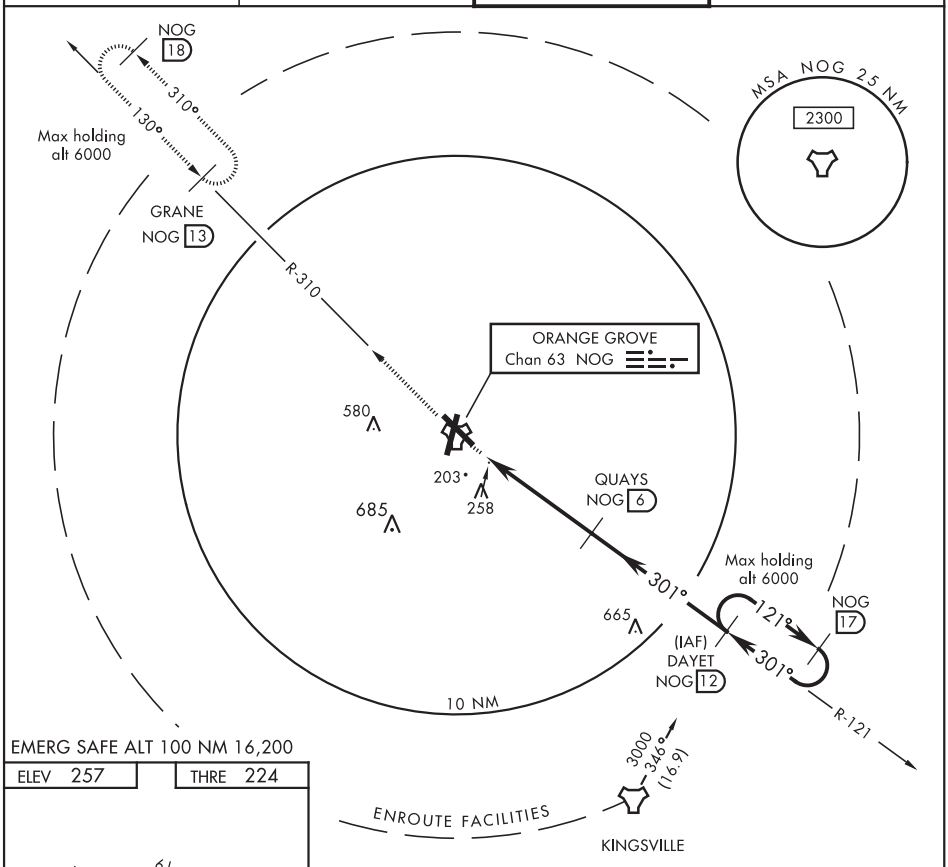
18200

TACAN RWY 31

TACAN NOG Chan 63	APCH CRS 301°	Rwy ldg 8001 THRE 224 Arpt Elev 257	AL-6553 [USN]	ORANGE GROVE NALF (KNOG)

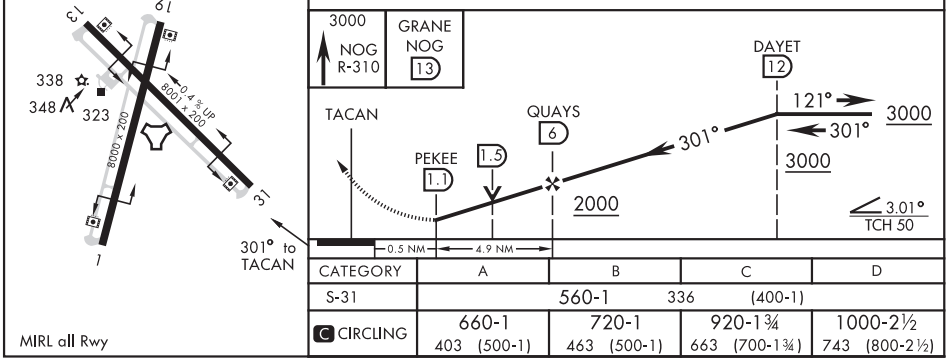
MISSED APPROACH: Climb to 3000 via NOG TACAN R-310 to GRANE and hold.

ATIS ★	KINGSVILLE APP CON	ORANGE GROVE TOWER ★	GND CON
254.35	119.90 290.45	281.425 318.85	229.4



EMERG SAFE ALT 100 NM 16,200

ELEV 257	THRE 224



CATEGORY	A	B	C	D
S-31	560-1 336 (400-1)			
C CIRCLING	660-1 403 (500-1)	720-1 463 (500-1)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

MIRL all Rwy

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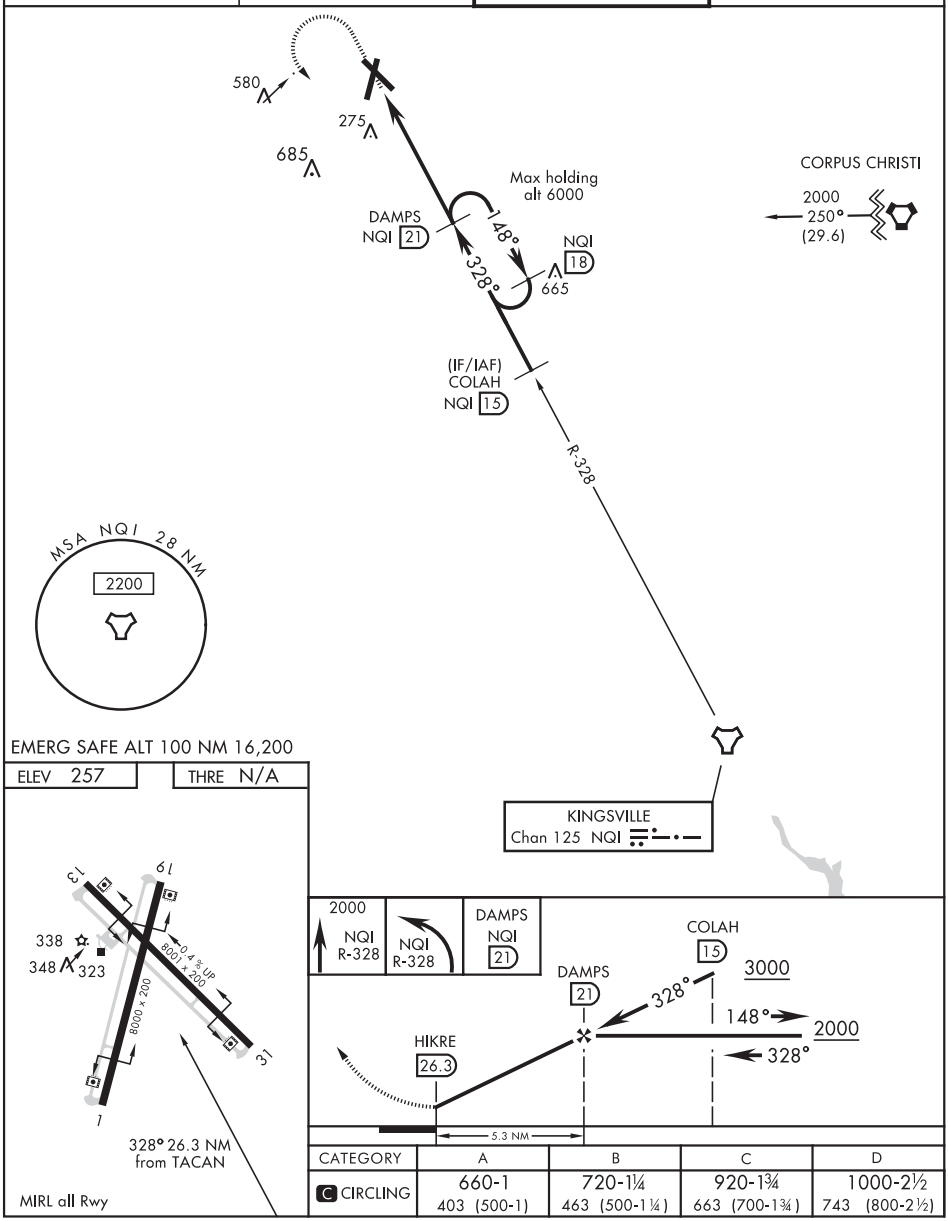
ORANGE GROVE, TEXAS

TACAN-A

TACAN NQI Chan 125	APCH CRS 328°	Rwy ldg N/A THRE N/A Arpt Elev 257	AL-6553 [USN]	ORANGE GROVE NALF (KNOG)

MISSED APPROACH: Climb to 2000 via NQI TACAN R-328, then left turn via NQI R-328 to DAMPS and hold.

ATIS ★	KINGSVILLE APP CON	ORANGE GROVE TOWER ★	GND CON
254.35	119.90 290.45	281.425 318.85	229.4



CATEGORY	A	B	C	D
C CIRCLING	660-1 403 (500-1)	720-1¼ 463 (500-1¼)	920-1¾ 663 (700-1¾)	1000-2½ 743 (800-2½)

ORANGE GROVE, TEXAS 27°54′N-98°03′W ORANGE GROVE NALF (KNOG)

Orig 15OCT15

TACAN-A

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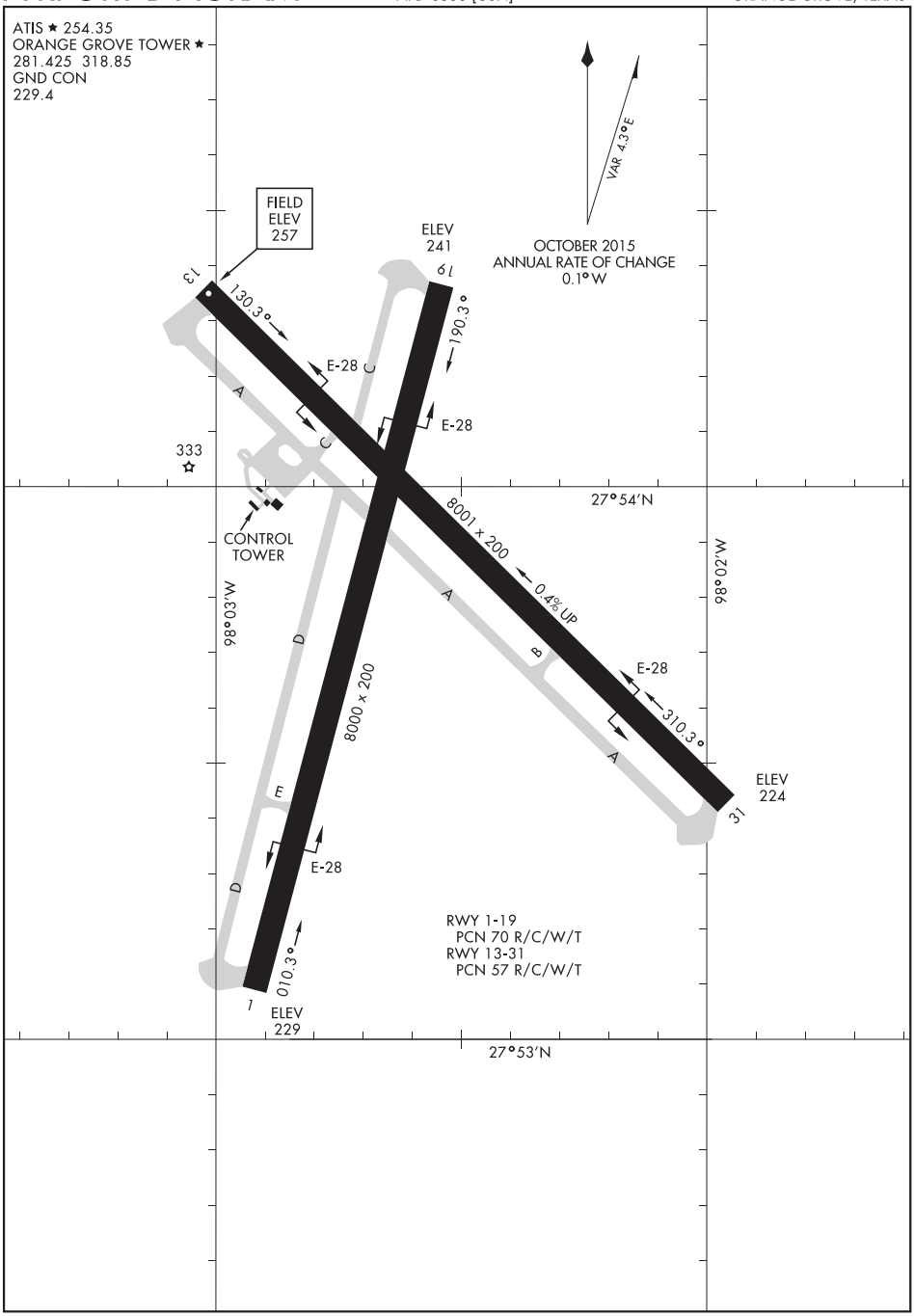
18200

AIRPORT DIAGRAM

ORANGE GROVE NALF (KNOG)

AFD-6553 [USN]

ORANGE GROVE, TEXAS



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AIRPORT DIAGRAM

ORANGE GROVE, TEXAS

ORANGE GROVE NALF (KNOG)

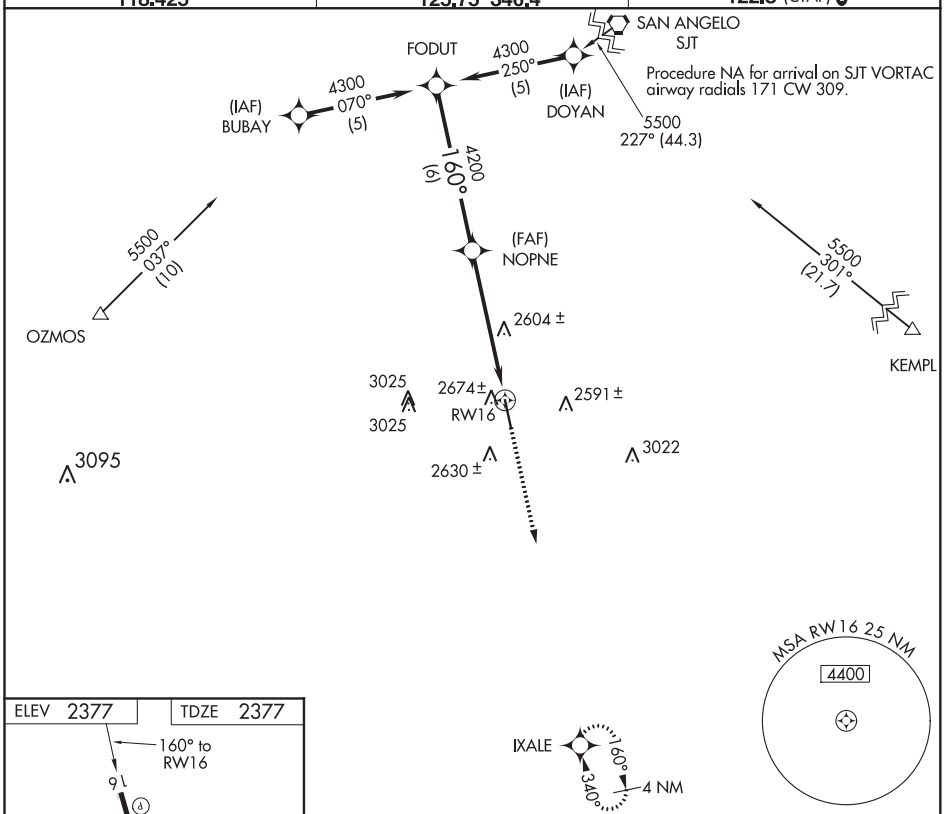
RNAV (GPS) RWY 16
OZONA MUNI (OZA)

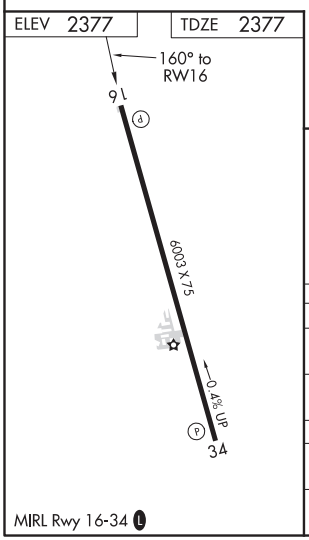
APP CRS	Rwy ldg	6003
160°	TDZE	2377
	Apt Elev	2377

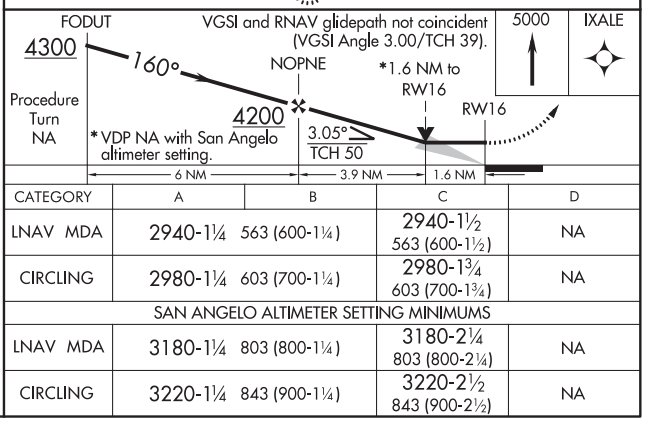
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Procedure NA at night.
Obtain local altimeter on CTAF; when not received, use San Angelo altimeter setting.
Rwy 16 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 5000 direct IXALE WP and hold.

AWOS-3PT	HOUSTON CENTER	UNICOM
118.425	125.75 346.4	122.8 (CTAF) L







CATEGORY	A	B	C	D
LNAV MDA	2940-1¼ 563 (600-1¼)		2940-1½ 563 (600-1½)	NA
CIRCLING	2980-1¼ 603 (700-1¼)		2980-1¾ 603 (700-1¾)	NA
SAN ANGELO ALTIMETER SETTING MINIMUMS				
LNAV MDA	3180-1¼ 803 (800-1¼)		3180-2¼ 803 (800-2¼)	NA
CIRCLING	3220-1¼ 843 (900-1¼)		3220-2½ 843 (900-2½)	NA

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PEARSALL, TEXAS AL-6177 (FAA) 20198

VOR/DME or GPS-A

MC KINLEY FIELD (T30)

VORTAC COT 115.8 Chan 105	APP CRS 352°	Rwy ldg N/A TDZE N/A Apt Elev 586

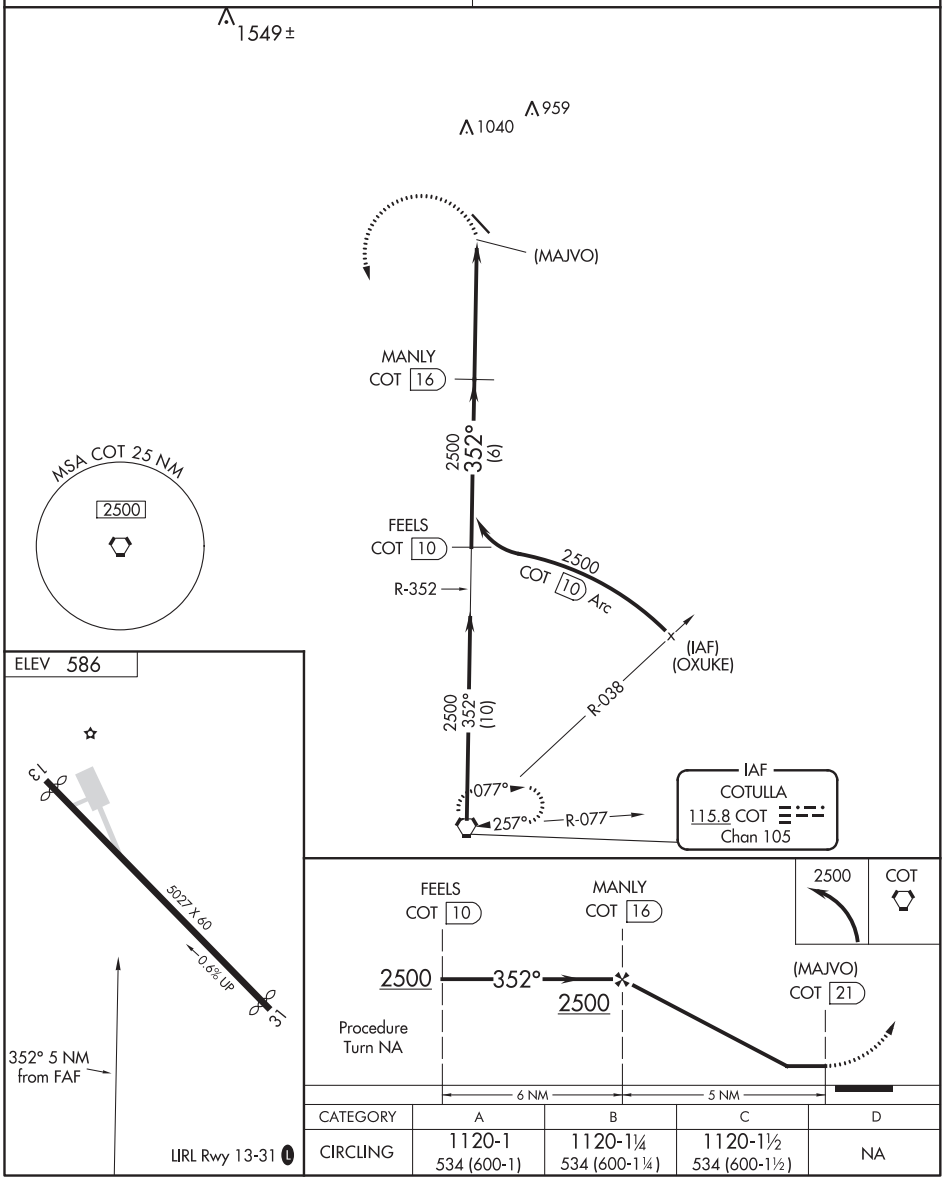
T NA

Use Cotulla altimeter setting.
Procedure NA at night.

MISSED APPROACH: Climbing left turn to 2500 direct COT VORTAC and hold.

HOUSTON CENTER
134.6 322.5

UNICOM
122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	1120-1 534 (600-1)	1120-1¼ 534 (600-1¼)	1120-1½ 534 (600-1½)	NA

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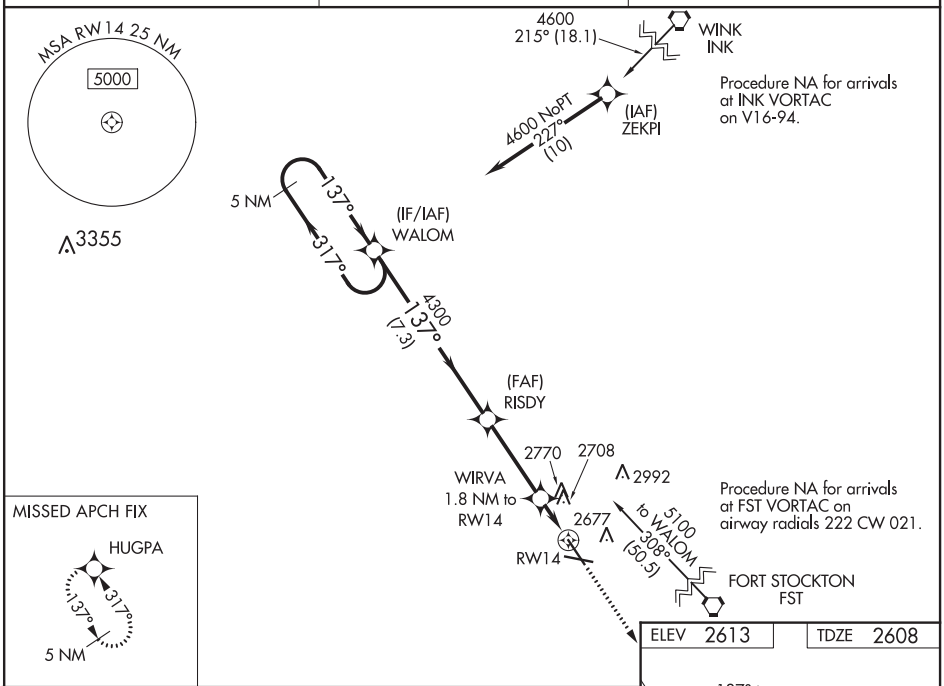
RNAV (GPS) RWY 14
PECOS MUNI (PEQ)

WAAS CH 62830 W14A	APP CRS 137°	Rwy ldg 6236 TDZE 2608 Apt Elev 2613

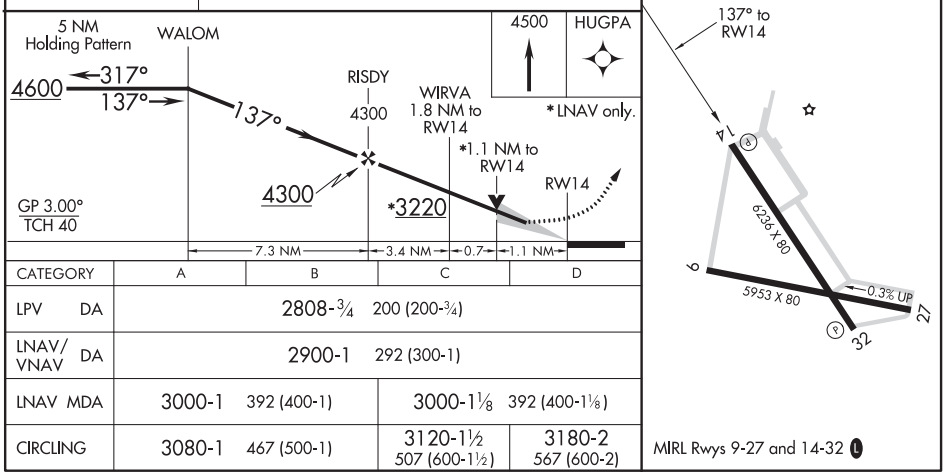
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 27°C (80°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA with Wink altimeter setting. When local altimeter setting not received, use Wink altimeter setting and increase all DA 95 feet and all MDA 100 feet, increase LPV all Cats visibility ¼ mile, LNAV VNAV all Cats visibility ⅜ mile, LNAV Cat C/D and Circling Cat C visibility ¼ mile. Circling to Rwy 9/27 NA at night.

MISSED APPROACH: Climb to 4500 direct HUGPA and hold.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
118.175	135.875 292.15	122.8 (CTAF) L



ELEV 2613	TDZE 2608



CATEGORY	A	B	C	D
LPV DA	2808-¾ 200 (200-¾)			
LNAV/VNAV DA	2900-1 292 (300-1)			
LNAV MDA	3000-1 392 (400-1)		3000-1⅛ 392 (400-1⅛)	
CIRCLING	3080-1 467 (500-1)		3120-1½ 507 (600-1½)	3180-2 567 (600-2)

PECOS, TEXAS | AL-186 (FAA) | 19171

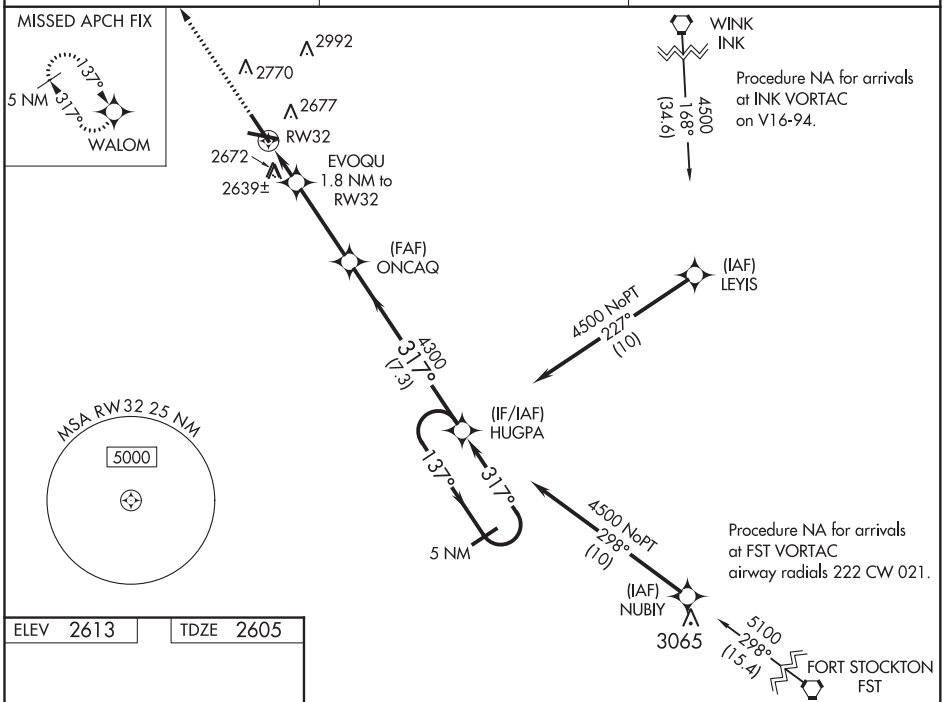
RNAV (GPS) RWY 32
PECOS MUNI (PEQ)

WAAS CH 69629 W32A	APP CRS 317°	Rwy ldg 6236 TDZE 2605 Apt Elev 2613

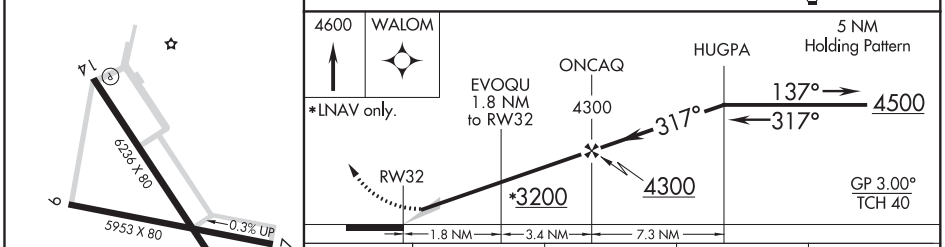
For uncompensated Baro-VNAV systems, procedure NA below -20°C (-4°F) or above 27°C (80°F).
DME/DME RNP-0.3 NA. When local altimeter setting not received, use Wink altimeter setting: increase LPV DA to 2900 feet, LNAV/VNAV DA to 2950 feet and all visibilities ⅛ SM; increase all MDA 100 feet and visibility Cat C and LNAV Cat D ¼ SM. Baro-VNAV NA when using Wink altimeter setting. Circling Rwy 9, 27 NA at night.

MISSED APPROACH: Climb to 4600 direct WALOM and hold.

AWOS-3	ALBUQUERQUE CENTER	UNICOM
118.175	135.875 292.15	122.8 (CTAF) L



ELEV 2613	TDZE 2605



CATEGORY	A	B	C	D
LPV DA	2805-¾ 200 (200-¾)			
LNAV/VNAV DA	2855-⅞ 250 (300-⅞)			
LNAV MDA	2940-1 335 (400-1)			
CIRCLING	3020-1 407 (500-1)	3080-1 467 (500-1)	3120-1½ 507 (600-1½)	3180-2 567 (600-2)

MIRL Rwys 9-27 and 14-32 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

RNAV (GPS) RWY 34
PLEASANTON MUNI (PEZ)

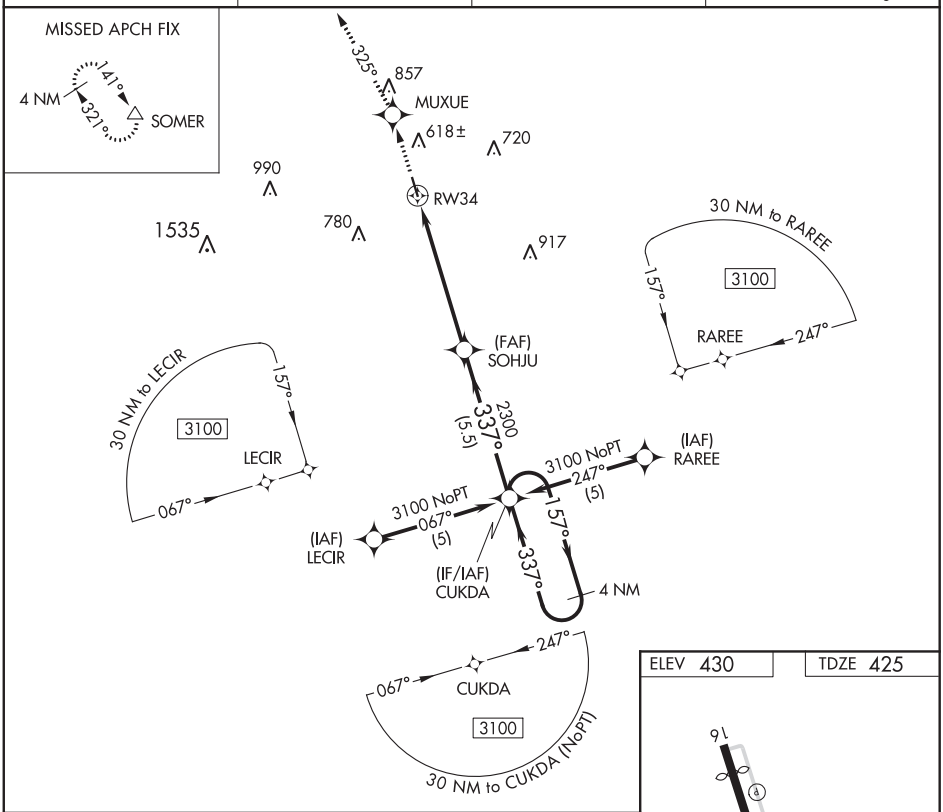
APP CRS	Rwy ldg	4000
337°	TDZE	425
	Apt Elev	430

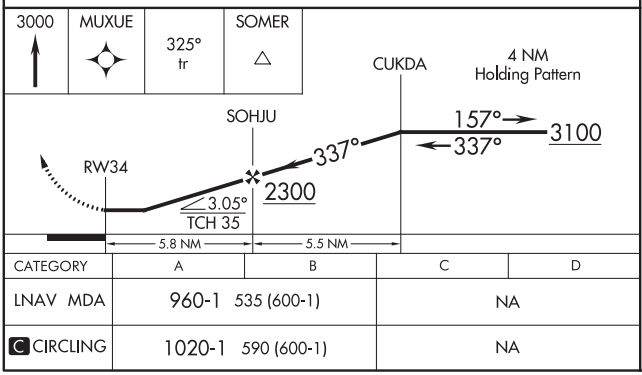
RNP APCH.

When local altimeter setting not received, use Kelly Fld altimeter setting and increase all MDA 100 feet. Procedure NA at night. Rwy 34 helicopter visibility reduction below 1 SM NA.

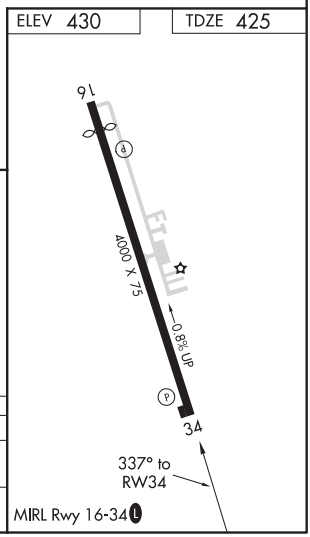
MISSED APPROACH: Climb to 3000 direct MUXUE and via 325° track to SOMER and hold.

AWOS-3	SAN ANTONIO APP CON	CLNC DEL	UNICOM
118.575	118.05 353.5	121.375	122.7 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	960-1 535 (600-1)		NA	
C CIRCLING	1020-1 590 (600-1)		NA	



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

PORT ARANSAS, TEXAS

AL-10221 (FAA)

17061

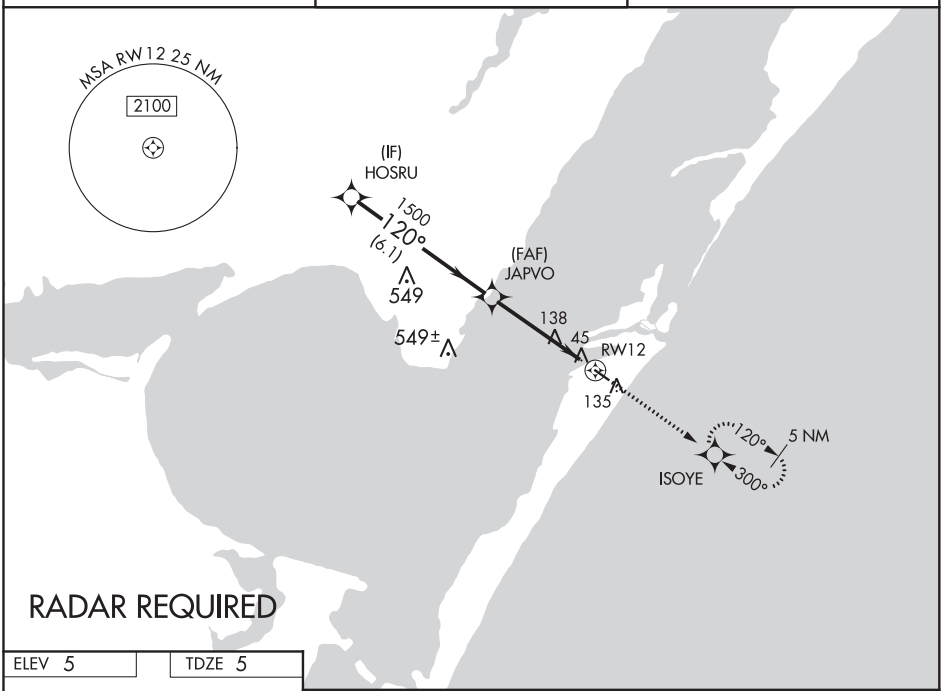
RNAV (GPS) RWY 12
MUSTANG BEACH (RAS)

WAAS CH 99500 W12A	APP CRS 120°	Rwy ldg 3482 TDZE 5 Apt Elev 5

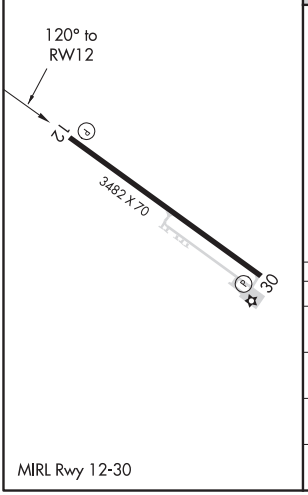
DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 44°C (111°F). If local altimeter setting not received, use Corpus Christi Intl altimeter setting and increase all DAs/MDAs 60 feet. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting.

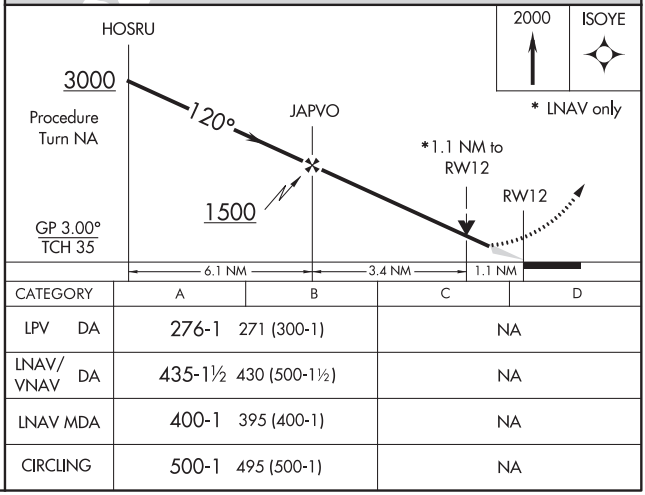
MISSED APPROACH: Climb to 2000 direct ISOYE and hold.

AWOS-3	CORPUS CHRISTI APP CON	CTAF
118.425	125.4 307.9	122.9



ELEV 5 | TDZE 5





CATEGORY	A	B	C	D
LPV DA	276-1 271 (300-1)		NA	
LNAV/VNAV DA	435-1½ 430 (500-1½)		NA	
LNAV MDA	400-1 395 (400-1)		NA	
CIRCLING	500-1 495 (500-1)		NA	

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

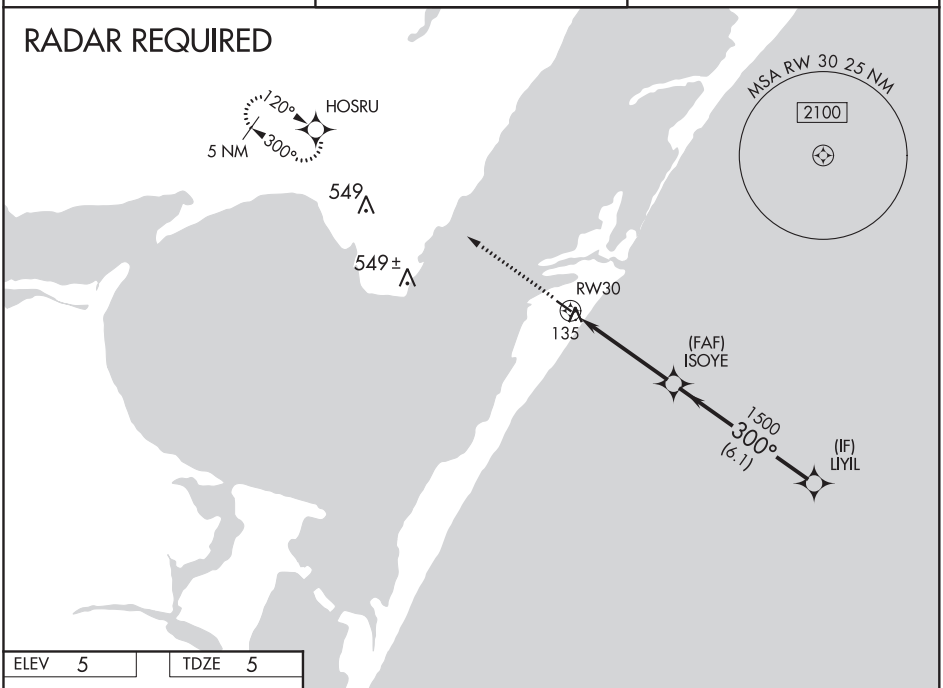
WAAS CH 63000 W30A	APP CRS 300°	Rwy ldg 3482 TDZE 5 Apt Elev 5

RNAV (GPS) RWY 30
MUSTANG BEACH (RAS)

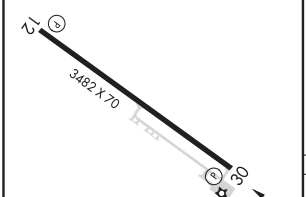
DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 44°C (111°F). If local altimeter setting not received, use Corpus Christi Intl altimeter setting and increase all DAs/MDAs 60 feet. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting.

MISSED APPROACH: Climb to 2000 direct HOSRU and hold.

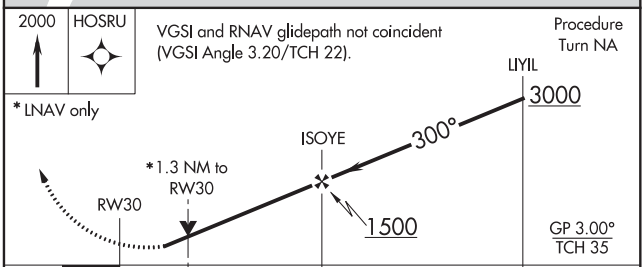
AWOS-3	CORPUS CHRISTI APP CON	CTAF
118.425	125.4 307.9	122.9



ELEV 5	TDZE 5



MIRL Rwy 12-30



CATEGORY	A	B	C	D
LPV DA	362-1¼ 357 (400-1¼)		NA	
LNAV/VNAV DA	435-1½ 430 (500-1½)		NA	
LNAV MDA	440-1 435 (500-1)		NA	
CIRCLING	500-1 495 (500-1)		NA	

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SC-3, 25 FEB 2021 to 22 APR 2021

PORT ISABEL, TEXAS

AL-6099 (FAA)

20142

WAAS CH 53708 W13A	APP CRS 130°	Rwy ldg 8001 TDZE 18 Apt Elev 19

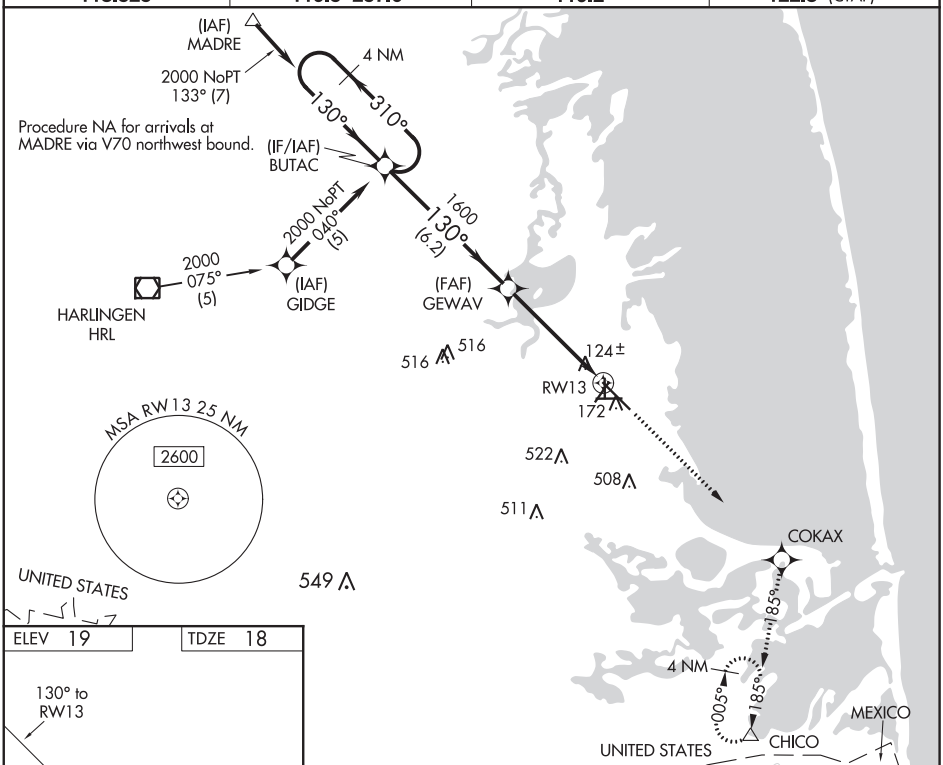
RNAV (GPS) RWY 13
PORT ISABEL-CAMERON COUNTY (PIL)

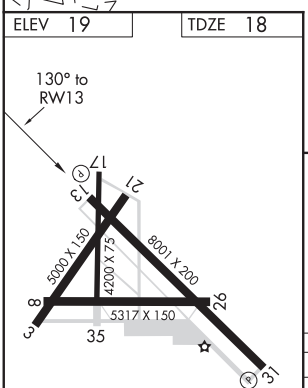
RNP APCH.

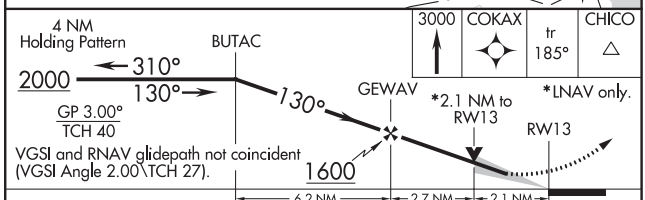
Baro-VNAV NA when using Brownsville altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. VDP NA when using Brownsville altimeter setting. When local altimeter setting not received, use Brownsville altimeter setting and increase all DA 38 feet and all MDA 40 feet, increase LPV all Cats, LNAV Cat C, and Circling Cat C visibility ¼ mile. Circling Rwys 3, 8, 17, 21, 26, 35 NA at night.

MISSED APPROACH: Climb to 3000 direct COKAX and via 185° track to CHICO and hold.

ASOS	VALLEY APP CON	CLNC DEL	UNICOM
118.525	119.5 257.6	119.2	122.8 (CTAF)







CATEGORY	A	B	C	D
LPV DA	376-1¼ 358 (400-1¼)			NA
LNAV/VNAV DA	424-1½ 406 (500-1½)			NA
LNAV MDA	480-1 462 (500-1)		480-1¼ 462 (500-1¼)	NA
C CIRCLING	540-1 521 (600-1)	620-1 601 (700-1)	840-2½ 821 (900-2½)	NA

REIL Rwys 13 and 31
MIRL Rwy 13-31

VORTAC BRO 116.3 Chan 110	APP CRS	Rwy ldg N/A TDZE N/A Apt Elev 19

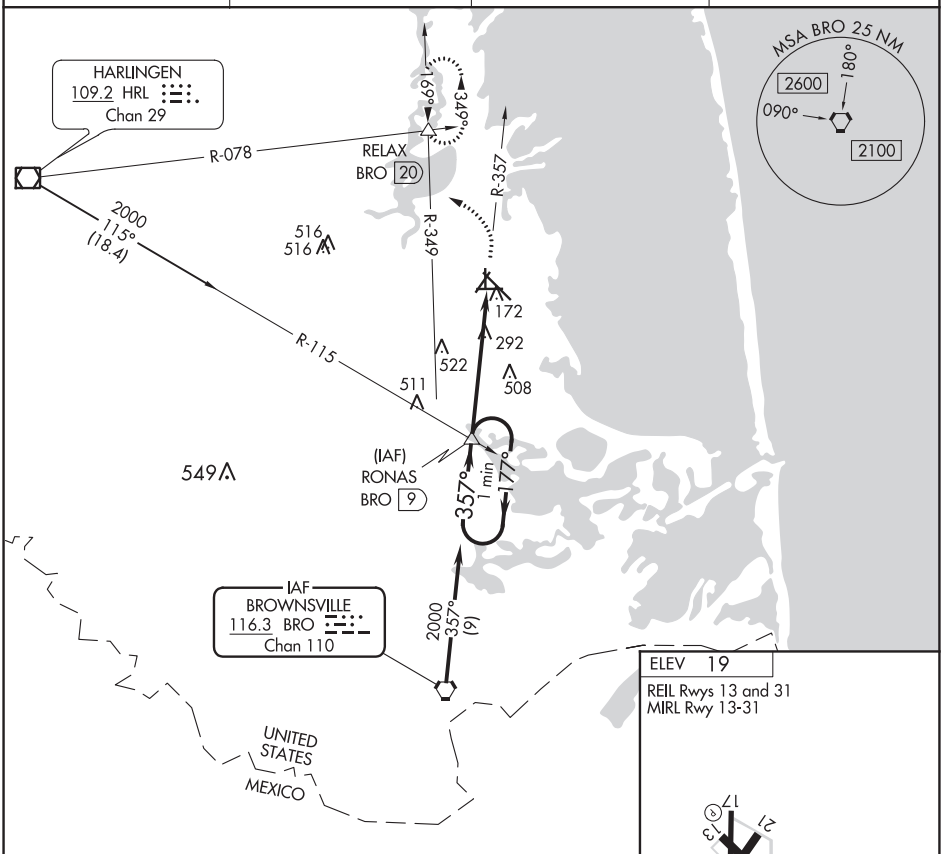
VOR-A
PORT ISABEL-CAMERON COUNTY (PIL)

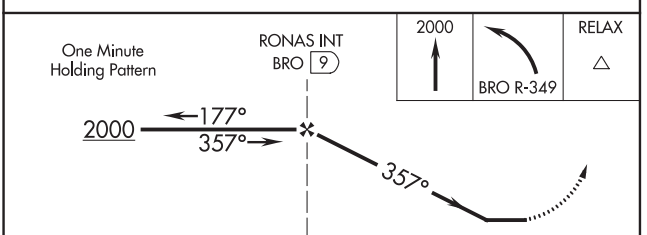
When local altimeter setting not received, use Brownsville altimeter setting and increase all MDA 40 feet and increase Cat C visibility ¼ mile. Circling Rwys 3, 8, 17, 21, 26, 35 NA at night.

NA

MISSED APPROACH: Climb to 2000 then turn left via BRO R-349 to RELAX INT/BRO 20 DME and hold.

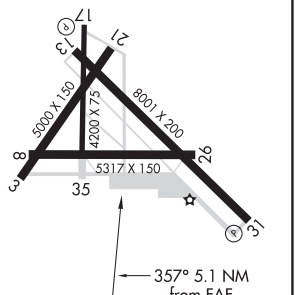
ASOS	VALLEY APP CON	CLNC DEL	UNICOM
118.525	119.5 257.6	119.2	122.8 (CTAF)





ELEV 19

REIL Rwys 13 and 31
MIRL Rwy 13-31



CATEGORY	A	B	C	D
C CIRCLING	780-1 761 (800-1)		840-2½ 821 (900-2½)	NA

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

PRESIDIO, TX

AL-10222 (FAA)

20254

RNAV (GPS)-A

PRESIDIO LELY INTL (PRS)

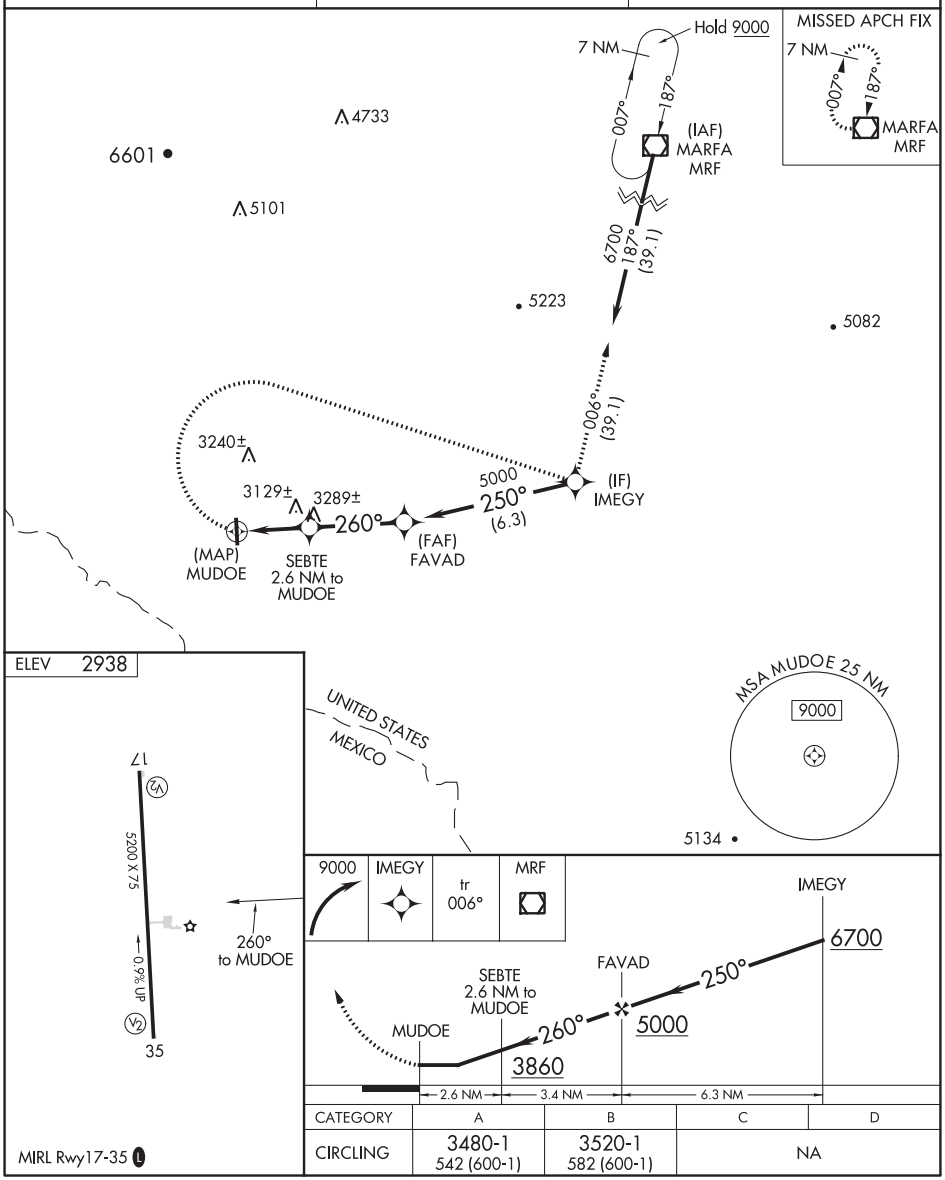
APP CRS	Rwy ldg	N/A
260°	TDZE	N/A
	Apt Elev	2938

T A NA

When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct IMEGY and on track 006° to MRF VOR/DME and hold.

AWOS-3PT	ALBUQUERQUE CENTER	UNICOM
118.0	135.875 292.15	122.8 (CTAF) L



CATEGORY	A	B	C	D
CIRCLING	3480-1 542 (600-1)	3520-1 582 (600-1)	NA	

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

UNIVERSAL CITY, TEXAS

ILS or LOC RWY 15R

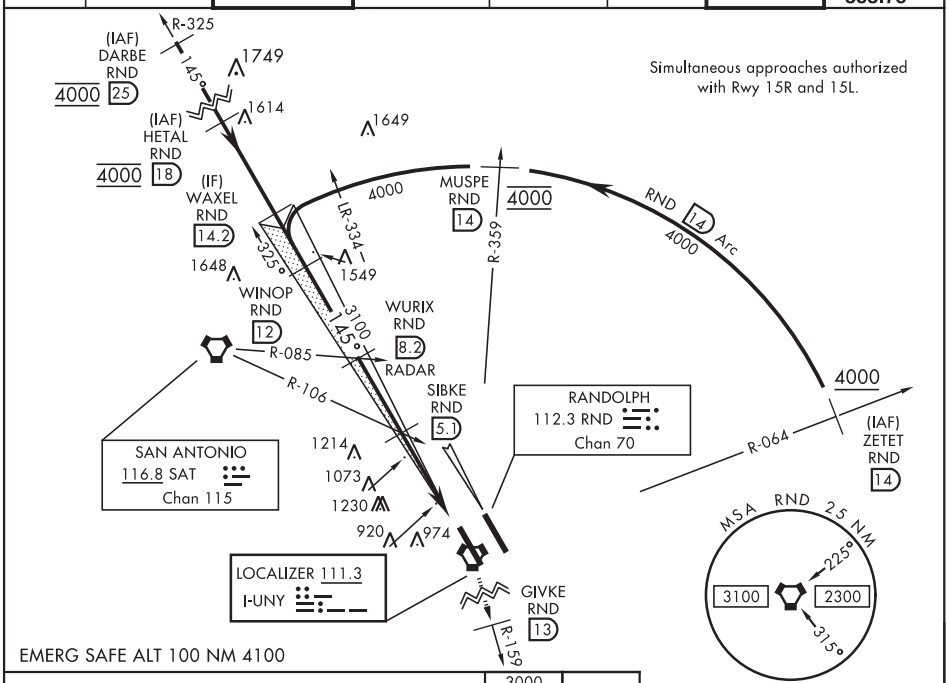
LOC I-UNY 111.3	APCH CRS 145°	Rwy ldg 8352 TDZE 761 Arpt Elev 761	AL-341 [USAF]	RANDOLPH AFB (KRND)

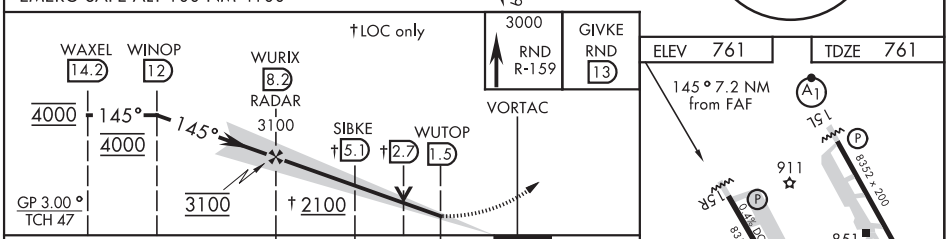
RADAR or DME required.

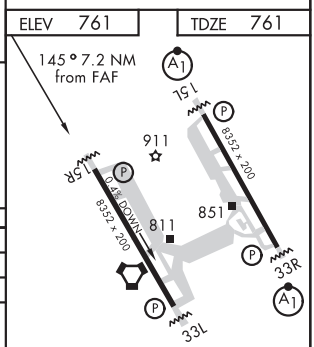
*Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climb to 3000 out RND VORTAC R-159 to 13 DME (GIVKE). Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75







CATEGORY	A	B	C	D	E
S-ILS 15R	961/40		200	(200-¾)	
S-LOC 15R	1340/55 579 (600-1)		1340-1⅝ 579 (600-1⅝)		
C CIRCLING*	1340-1 579 (600-1)		1500-2 739 (800-2)	1800-3 1039 (1100-3)	
WITHOUT LAST STEP DOWN FIX					
S-LOC 15R	1520/55 759 (800-1)	1520-1¼ 759 (800-1¼)	1520-2 759 (800-2)		
C CIRCLING*	1520-1 759 (800-1)	1520-1¼ 759 (800-1¼)	1520-2¼ 759 (800-2¼)	1800-3 1039 (1100-3)	

FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

ILS or LOC RWY 15R

SC-3, 25 FEB 2021 to 22 APR 2021

21056

UNIVERSAL CITY, TEXAS

ILS or LOC RWY 33L

LOC I-VQE	APCH CRS	Rwy ldg 8352
111.1	325°	TDZE 734
		Arpt Elev 761

AL-341 [USAF]

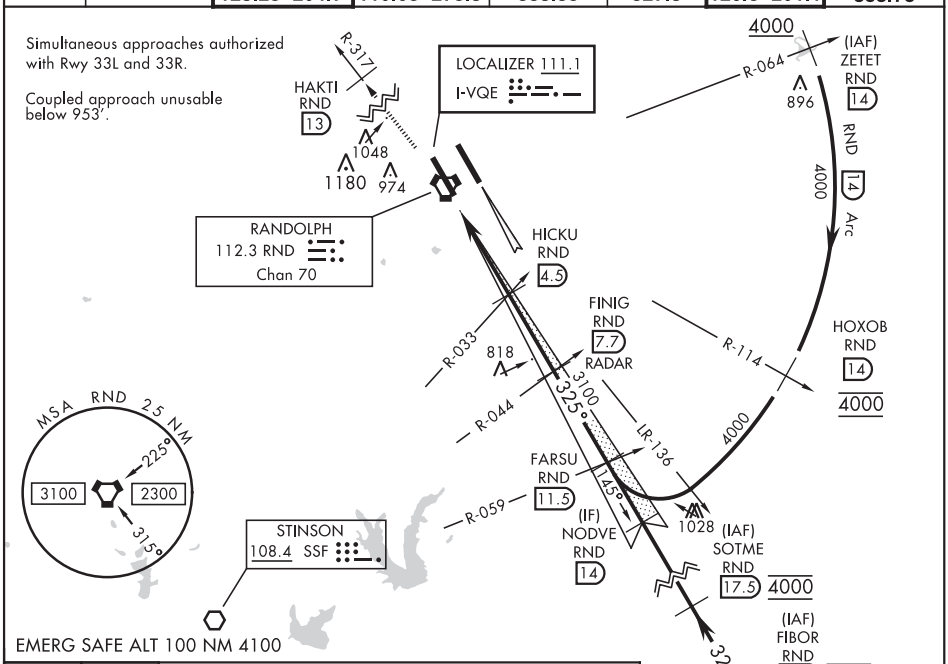
RANDOLPH AFB (KRND)

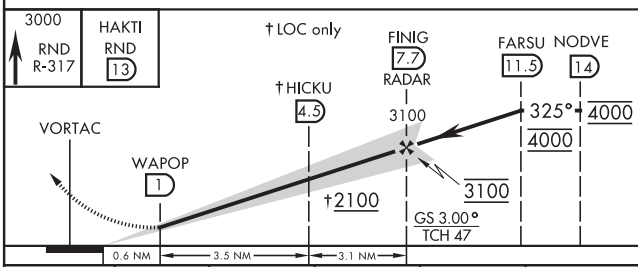
RADAR or DME required.

* Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climb to 3000 out RND VORTAC R-317 to 13 DME (HAKTI). Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75

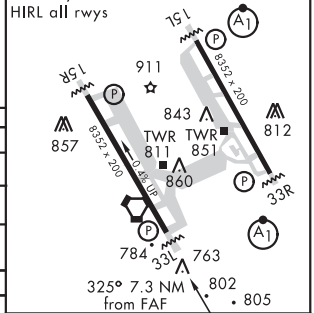




CATEGORY	A	B	C	D	E
S-ILS 33L	933/40		200	(200-¾)	
S-LOC 33L	1080/55		347	(400-1)	
C CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)
WITHOUT LAST STEP DOWN FIX					
S-LOC 33L	1140/55	407 (400-1)	1140/60	407	(400-1⅛)
C CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3	1039 (1100-3)

ELEV 761 | TDZE 734

ALS Rwy 15L nstd len 2100'
HIRL all rwys



FAF to MAP 6.7 NM

Knots	60	90	120	150	180
Min:Sec	6:42	4:28	3:21	2:41	2:14

UNIVERSAL CITY, TEXAS 29°32'N-98°17'W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

ILS or LOC RWY 33L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

UNIVERSAL CITY, TEXAS

ILS or LOC Y RWY 15L

LOC I-TRT	APCH CRS	Rwy ldg / TDZE / Arpt Elev
109.9	145°	8352 / 742 / 761

AL-341 [USAF]

RANDOLPH AFB (KRND)

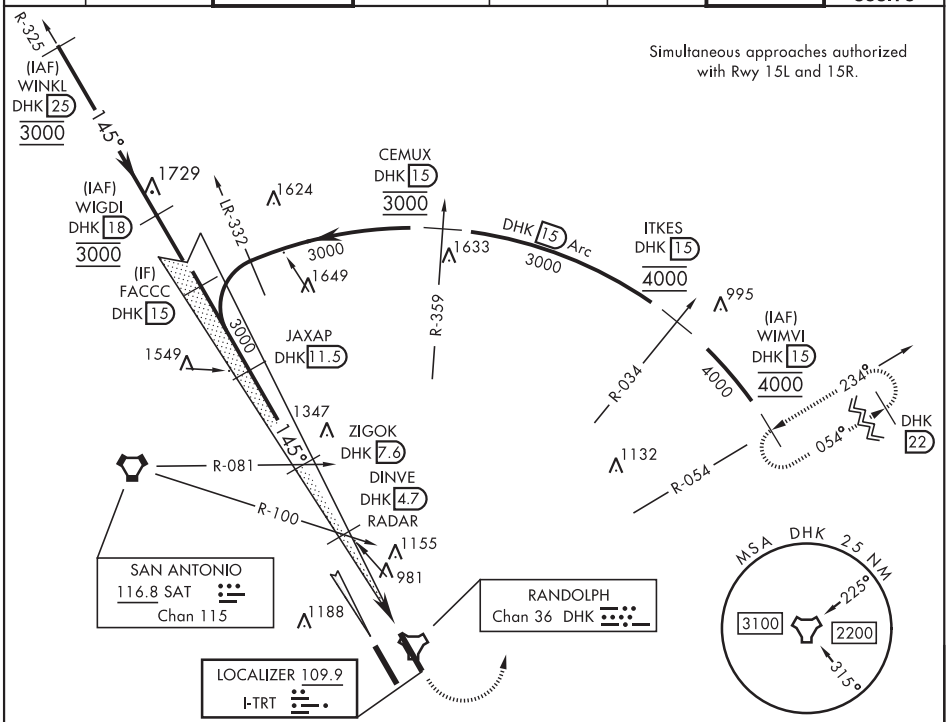
RADAR or DME required.

* When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE to 1⅜ miles.
** Circling not authorized SW of Rwy 15L-33R.

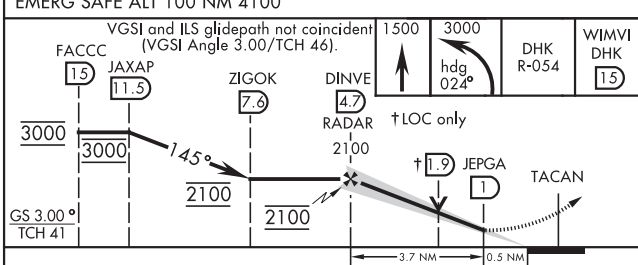
ALSF-1 (A1)

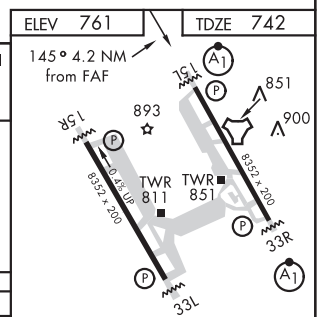
MISSED APPROACH: Climb to 1500, then climbing left turn heading 024° to 3000. Intercept DHK TACAN R-054 to WIMVI and hold.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



EMERG SAFE ALT 100 NM 4100





HIRL all rwys
ALS Rwy 15L nstd len 2100′

CATEGORY	A	B	C	D	E
S-ILS 15L	942/40		200	(200-¾)	
S-LOC 15L *	1240/40	498 (500-¾)	1240/60	498	(500-1⅛)
C CIRCLING **	1240-1	479 (500-1)	1260-1½ 499 (500-1½)	1800-3	1039 (1100-3)

FAF to MAP 3.7 NM

Knots	60	90	120	150	180
Min:Sec	3:42	2:28	1:51	1:29	1:14

UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

ILS or LOC Y RWY 15L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

21056

UNIVERSAL CITY, TEXAS

ILS or LOC Y RWY 33R

LOC I-RND	APCH CRS	Rwy ldg	8352
109.3	325°	TDZE	733
		Arpt Elev	761

AL-341 [USAF]

RANDOLPH AFB (KRND)

RADAR or DME required.

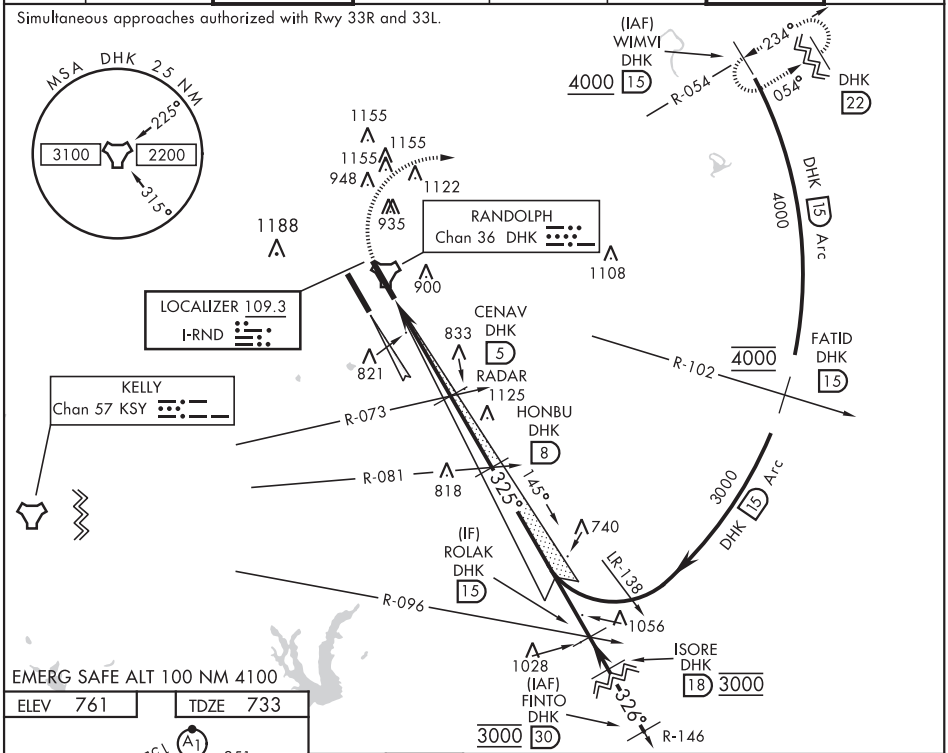
* When ALS inop, increase RVR to 40 and vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1⅜ miles.
*** Circling not authorized SW of Rwy 15L-33R.

ALSF-1

MISSED APPROACH: Climb to 1500, then climbing right turn hdg 084° to 3000. Intercept DHK R-054 to WIMVI and hold.

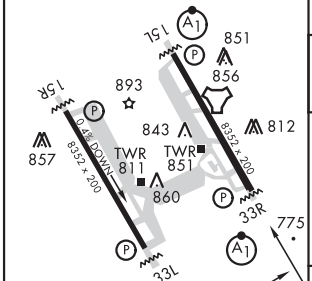
ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75

Simultaneous approaches authorized with Rwy 33R and 33L.



EMERG SAFE ALT 100 NM 4100

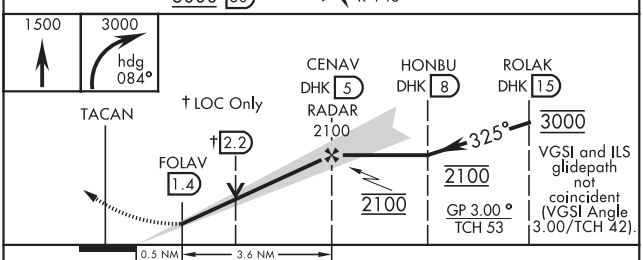
ELEV 761	TDZE 733



HIRL all rwys
ALS Rwy 15L nstd len 2100′

325° 4.1 NM from FAF

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12



CATEGORY	A	B	C	D	E
S-ILS 33R *	933/24 200 (200-½)				
S-LOC 33R **	1180/24 447 (500-½)		1180/45 447 (500-⅞)		
C CIRCLING ***	1180-1 419 (500-1)	1220-1 459 (500-1)	1260-1½ 499 (500-1½)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 15L

APCH CRS	Rwy ldg	8352
145°	TDZE	742
	Arpt Elev	761

AL-341 [USAF]

RANDOLPH AFB (KRND)

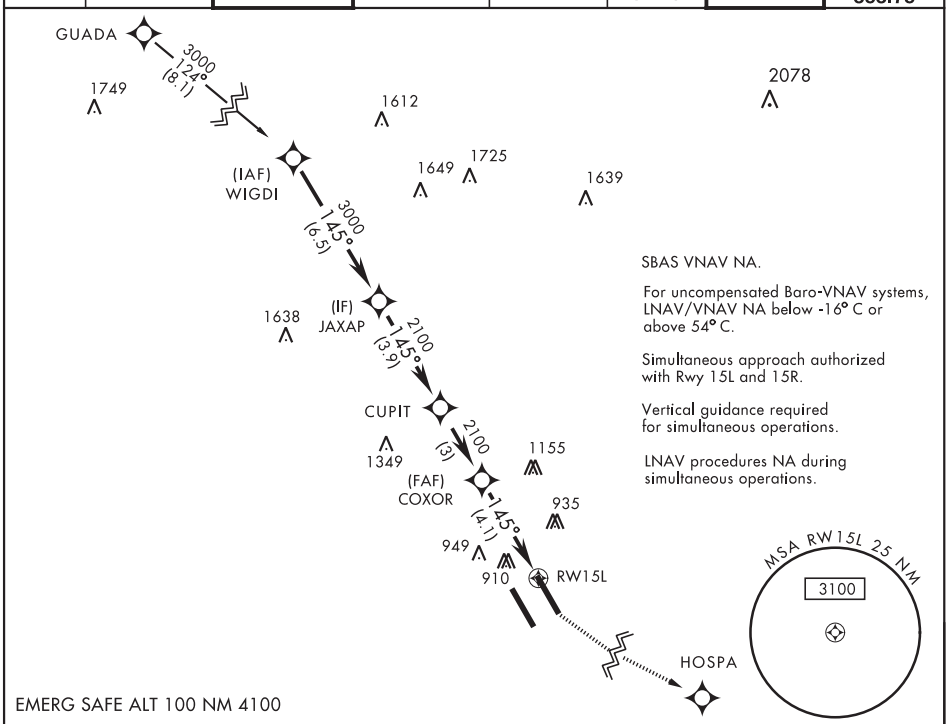
RNP APCH - GPS.

*When ALS inop, increase vis to 1⅜ miles.
**When ALS inop, increase CAT AB RVR to 55, vis to 1 mile; CAT CDE vis to 1⅜ miles.
***Circling not authorized SW of Rwy 15L-33R.

ALSF-1

MISSED APPROACH: Climb to 1500, then climbing left turn to 3000 direct HOSPA. Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



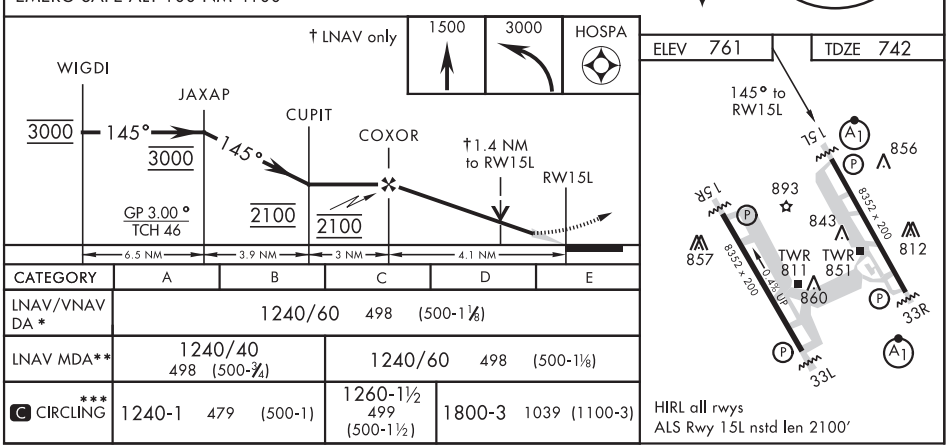
SBAS VNAV NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16° C or above 54° C.

Simultaneous approach authorized with Rwy 15L and 15R.

Vertical guidance required for simultaneous operations.

LNAV procedures NA during simultaneous operations.



CATEGORY	A	B	C	D	E
LNAV/VNAV DA *	1240/60 498 (500-1⅛)				
LNAV MDA**	1240/40 498 (500-¾)		1240/60 498 (500-1⅛)		
C *** CIRCLING	1240-1 479 (500-1)		1260-1½ 499 (500-1½)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS

29°32′N-98°17′W

RANDOLPH AFB (KRND)

Amdt 1 28JAN21

RNAV (GPS) RWY 15L

SC-3, 25 FEB 2021 to 22 APR 2021

21056

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 15R

APCH CRS	Rwy ldg	8352
145°	TDZE	761
	Arpt Elev	761

AL-341 [USAF]

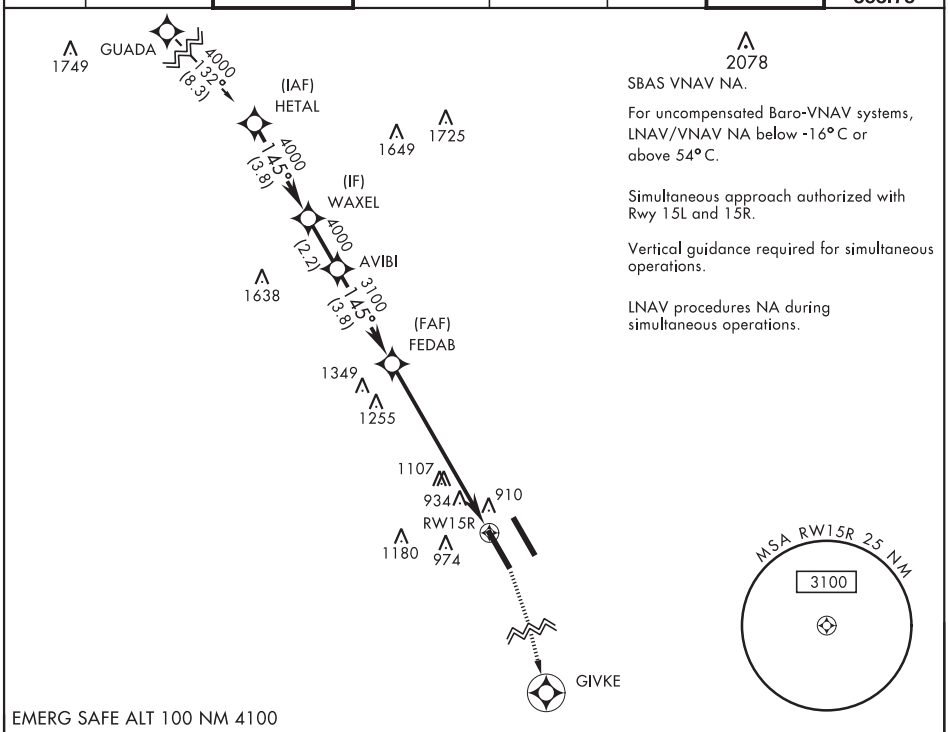
RANDOLPH AFB (KRND)

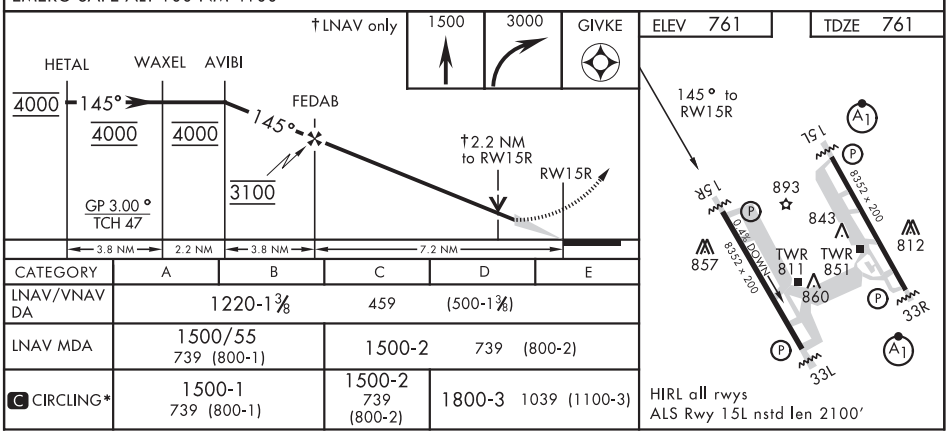
RNP APCH - GPS.

* Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct GIVKE. Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75





CATEGORY	A	B	C	D	E
LNAV/VNAV DA	1220-1¾		459 (500-1¾)		
LNAV MDA	1500/55 739 (800-1)		1500-2 739 (800-2)		
C CIRCLING*	1500-1 739 (800-1)		1500-2 739 (800-2)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

RNAV (GPS) RWY 15R

SC-3, 25 FEB 2021 to 22 APR 2021

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 33L

APCH CRS	Rwy ldg	8352
325°	TDZE	734
	Arpt Elev	761

AL-341 [USAF]

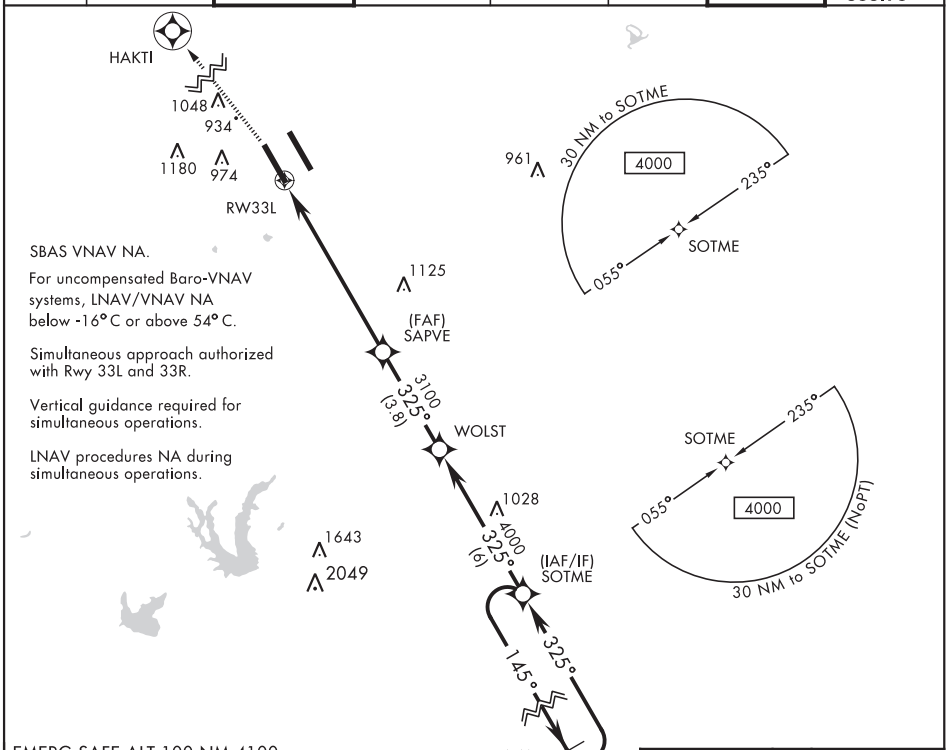
RANDOLPH AFB (KRND)

RNP APCH - GPS.

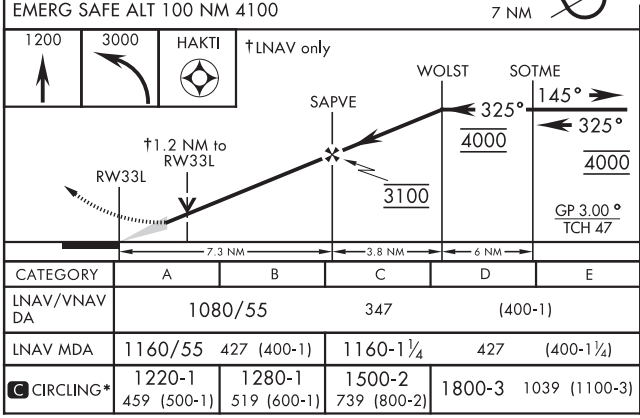
*Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climbing to 1200, then climbing left turn to 3000 direct HAKTI. Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



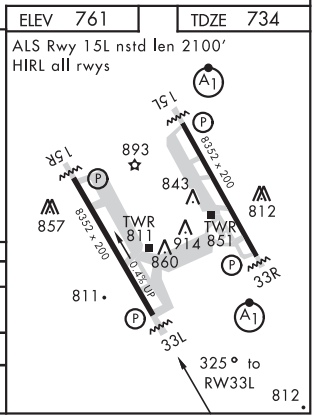
EMERG SAFE ALT 100 NM 4100



CATEGORY	A	B	C	D	E
LNAV/VNAV DA	1080/55		347	(400-1)	
LNAV MDA	1160/55 427 (400-1)		1160-1¼ 427 (400-1¼)		
C CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3 1039 (1100-3)	

ELEV 761 TDZE 734

ALS Rwy 15L nstd len 2100′
HIRL all rwys



UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

RNAV (GPS) RWY 33L

SC-3, 25 FEB 2021 to 22 APR 2021

21056

UNIVERSAL CITY, TEXAS

RNAV (GPS) RWY 33R

APCH CRS	Rwy ldg	8352
325°	TDZE	733
	Arpt Elev	761

AL-341 [USAF]

RANDOLPH AFB (KRND)

RNP APCH - GPS.

*When ALS inop, increase vis to 1¼ miles.
**When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1⅜ miles.
***Circling not authorized SW of Rwy 15L-33R.

ALSF-1 (A1)

MISSED APPROACH: Climb to 1500 then climbing right turn to 3000 direct CESVU. Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75

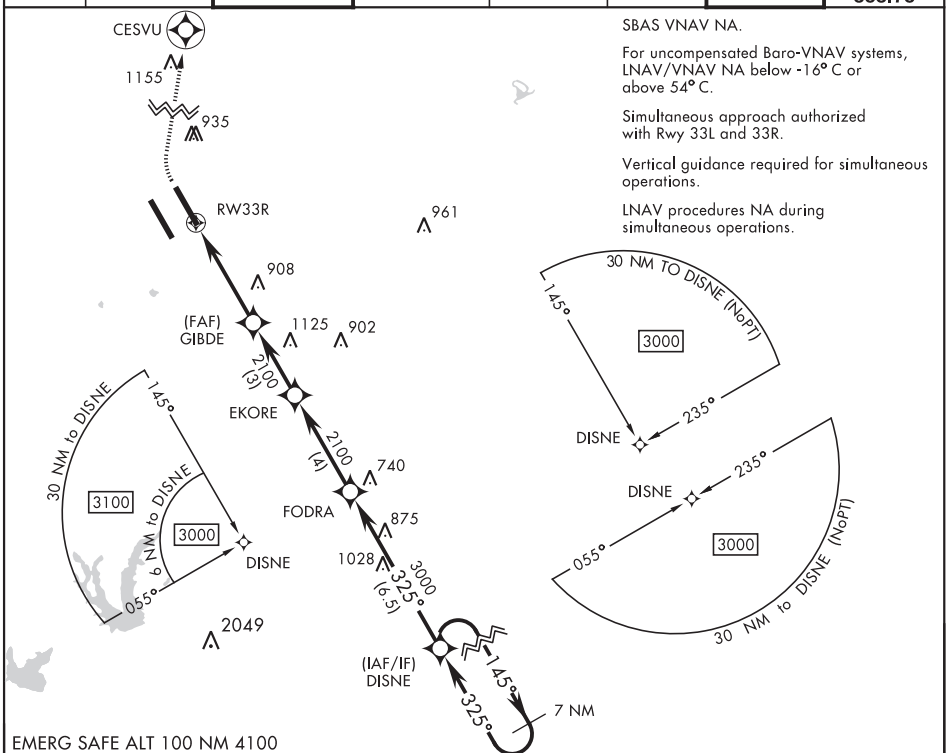
SBAS VNAV NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16° C or above 54° C.

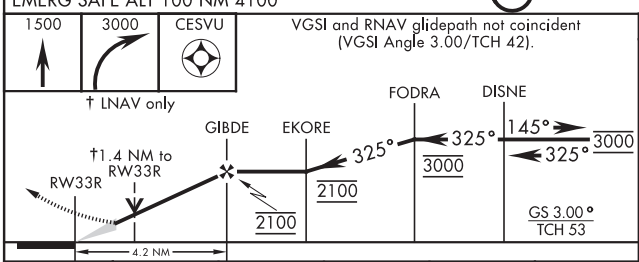
Simultaneous approach authorized with Rwy 33L and 33R.

Vertical guidance required for simultaneous operations.

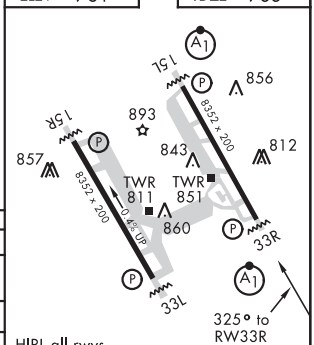
LNAV procedures NA during simultaneous operations.



EMERG SAFE ALT 100 NM 4100



ELEV 761 TDZE 733



HIRL all rwys
ALS Rwy 15L nstd len 2100′

CATEGORY	A	B	C	D	E
LNAV/VNAV DA *	1079/30 346 (400-⅝)				
LNAV MDA**	1200/24 467 (500-½)		1200/50 467 (500-1)		
C CIRCLING***	1200-1 439 (500-1)	1220-1 459 (500-1)	1260-1½ 499 (500-1½)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

RNAV (GPS) RWY 33R

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

UNIVERSAL CITY, TEXAS

TACAN RWY 15R

VORTAC RND 112.3 Chan 70	APCH CRS 146°	Rwy ldg 8352 TDZE 761 Arpt Elev 761

AL-341 [USAF]

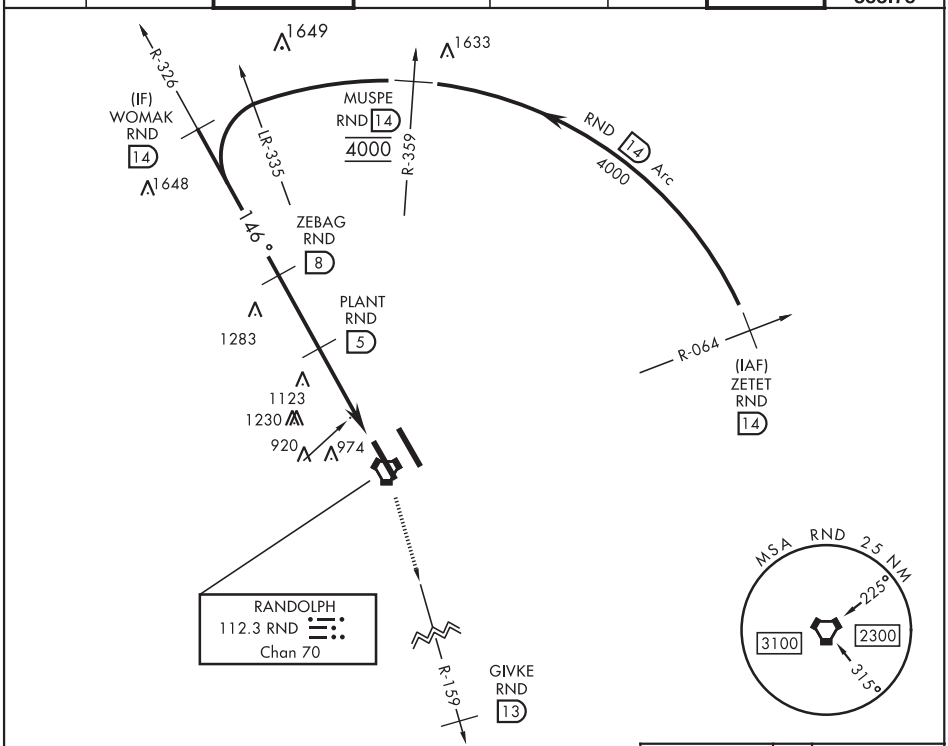
RANDOLPH AFB (KRND)

RADAR required.

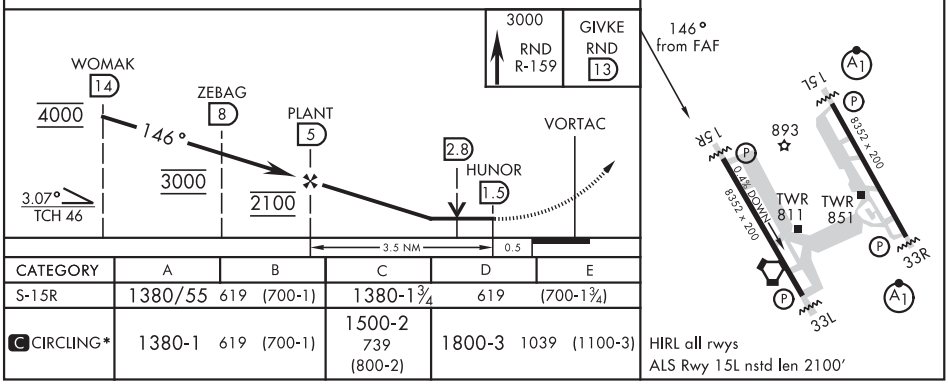
*Circling not authorized NE of Rwy 15R-33L.

MISSED APPROACH: Climb to 3000 out RND VORTAC R-159 to 13 DME (GIVKE). Expect ATC instructions.

ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



EMERG SAFE ALT 100 NM 4100



CATEGORY	A	B	C	D	E
S-15R	1380/55 619 (700-1)		1380-1¾	619	(700-1¾)
C CIRCLING*	1380-1 619 (700-1)		1500-2 739 (800-2)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS 29°32′N-98°17′W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

TACAN RWY 15R

SC-3, 25 FEB 2021 to 22 APR 2021

21056

UNIVERSAL CITY, TEXAS

TACAN RWY 33L

VORTAC RND	APCH CRS	Rwy ldg 8352
112.3	323°	TDZE 734
Chan 70		Arpt Elev 761

AL-341 [USAF]

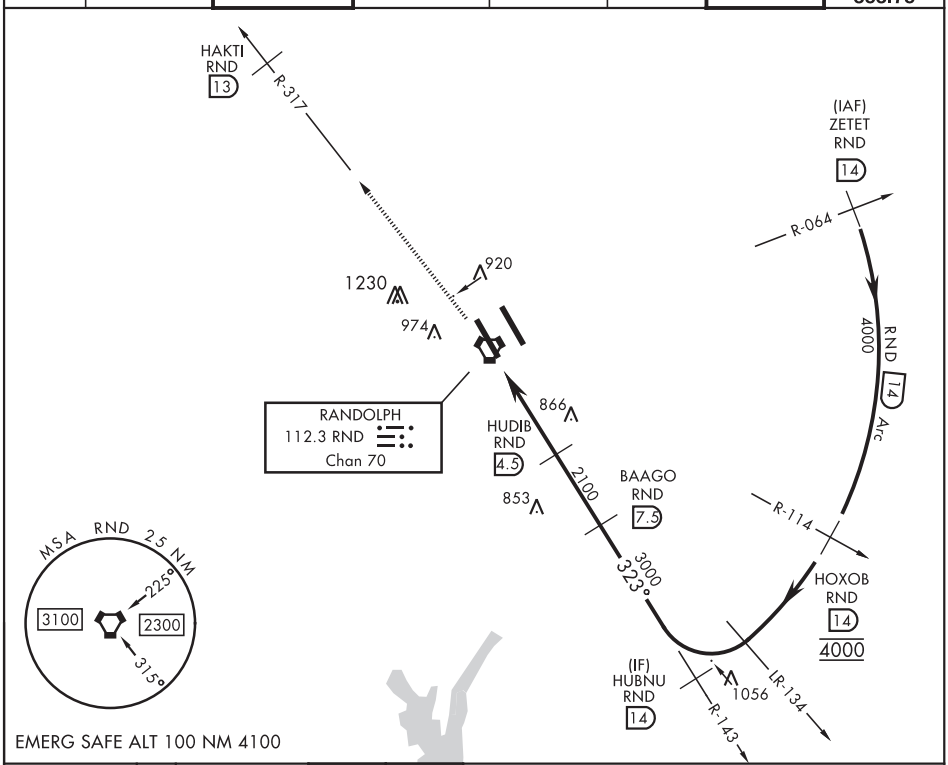
RANDOLPH AFB (KRND)

RADAR required.

* Circling not authorized NE of Rwy 15R-33L.

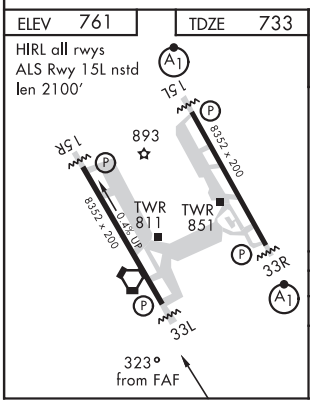
MISSED APPROACH: Climb to 3000 out RND VORTAC R-317 to RND 13 DME (HAKTI). Expect ATC instructions.

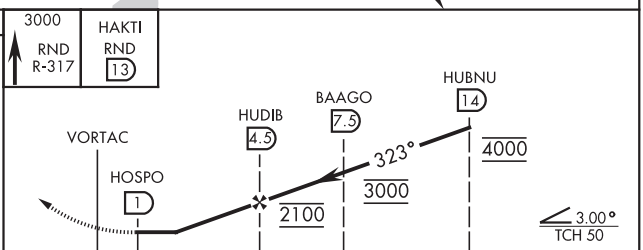
ATIS ★	SAN ANTONIO APP CON	RANDOLPH TOWER ★	RANDOLPH GND CON	CLNC DEL (RWY 15L-33R)	HANGOVER ATIS ★	HANGOVER TOWER ★	HANGOVER GND CON
290.525	128.05 318.1	128.25 294.7	119.65 275.8	338.35	327.8	120.5 291.1	124.75 353.75



ELEV 761 | TDZE 733

HIRL all rwys
ALS Rwy 15L nstd
len 2100'





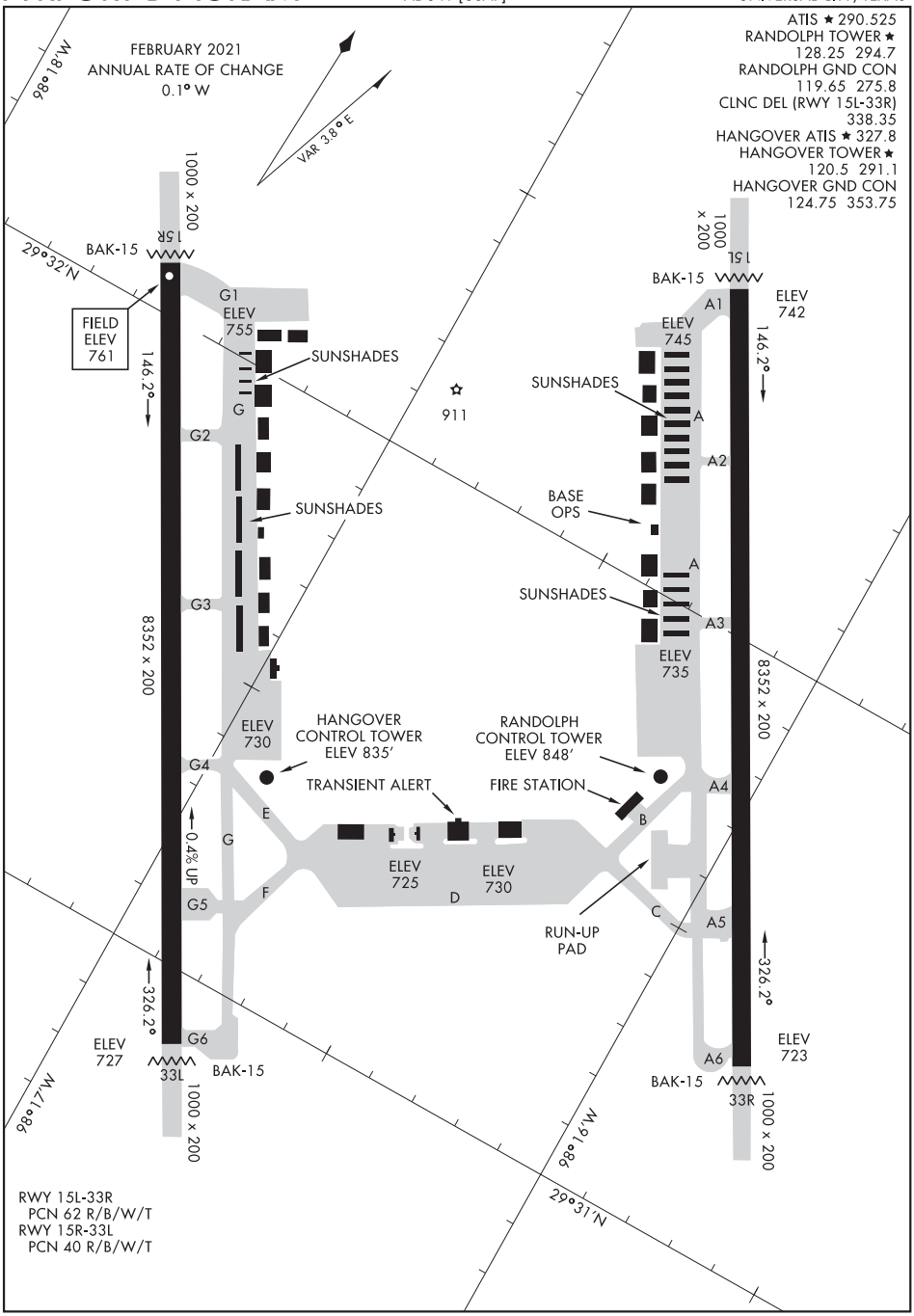
CATEGORY	A	B	C	D	E
S-33L	1120/55 387 (400-1)		1120/60 387 (400-1 1/8)		
C CIRCLING*	1220-1 459 (500-1)	1280-1 519 (600-1)	1500-2 739 (800-2)	1800-3 1039 (1100-3)	

UNIVERSAL CITY, TEXAS 29°32'N-98°17'W RANDOLPH AFB (KRND)

Amdt 1 28JAN21

TACAN RWY 33L

SC-3, 25 FEB 2021 to 22 APR 2021


FEBRUARY 2021
ANNUAL RATE OF CHANGE
0.1° W
VAR 3.8° E
98° 18' W
29° 32' N
ATIS ★ 290.525
RANDOLPH TOWER ★
128.25 294.7
RANDOLPH GND CON
119.65 275.8
CLNC DEL (RWY 15L-33R)
338.35
HANGOVER ATIS ★ 327.8
HANGOVER TOWER ★
120.5 291.1
HANGOVER GND CON
124.75 353.75
1000 x 200
15R
BAK-15
FIELD ELEV 761
146.2°
G1
ELEV 755
SUNSHADES
G
G2
911
SUNSHADES
G3
8352 x 200
ELEV 730
HANGOVER CONTROL TOWER ELEV 835'
G4
E
G
0.4% UP
G5
F
ELEV 725
ELEV 730
D
TRANSIENT ALERT
RANDOLPH CONTROL TOWER ELEV 848'
FIRE STATION
B
RUN-UP PAD
C
326.2°
ELEV 727
G6
33L
BAK-15
1000 x 200
94° 16' W
29° 31' N
1000 x 200
15L
BAK-15
A1
ELEV 742
ELEV 745
146.2°
SUNSHADES
A
A2
BASE OPS
A
SUNSHADES
A3
ELEV 735
8352 x 200
A4
A5
326.2°
ELEV 723
A6
BAK-15
33R
1000 x 200
RWY 15L-33R
PCN 62 R/B/W/T
RWY 15R-33L
PCN 40 R/B/W/T

ROBSTOWN, TEXAS | AL-6929 (FAA) | 18312

RNAV (GPS) RWY 13
NUECES COUNTY (RBO)

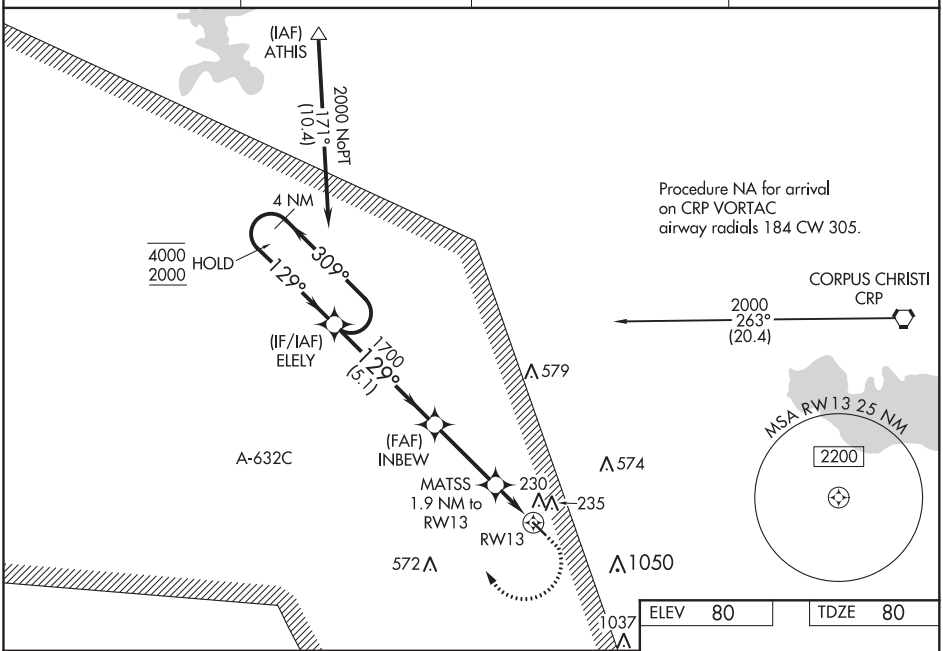
WAAS CH 97430 W13A	APP CRS 129°	Rwy ldg 3700 TDZE 80 Apt Elev 80

RNP APCH.

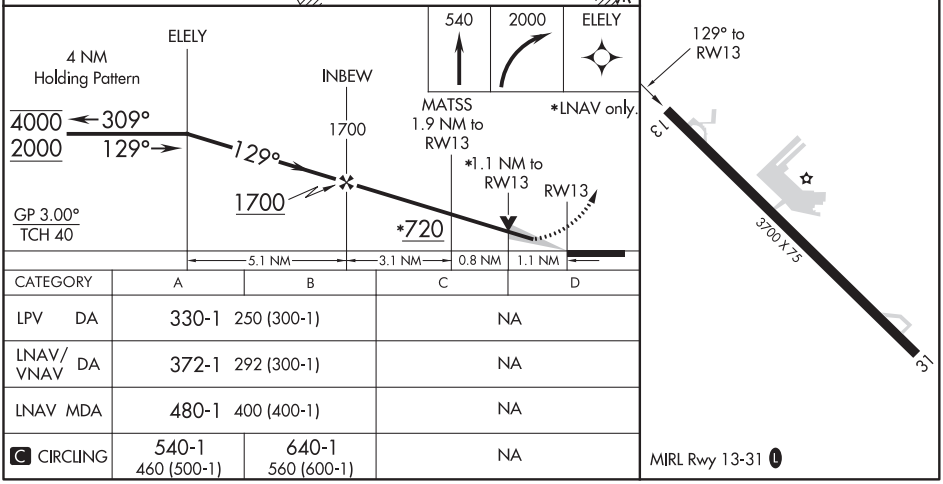
Circling NA northeast of Rwy 13-31. Procedure NA at night. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. When local altimeter setting not received, use Corpus Christi Intl altimeter setting and increase LPV DA to 358 feet, LNAV/VNAV DA to 400 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 540 then climbing right turn to 2000 direct ELELY and hold.

AWOS-3	KINGSVILLE APP CON ★	CTAF	
118.175	119.9 290.45	122.9	122.8 (L)



ELEV 80	TDZE 80



CATEGORY	A	B	C	D
LPV DA	330-1 250 (300-1)		NA	
LNAV/VNAV DA	372-1 292 (300-1)		NA	
LNAV MDA	480-1 400 (400-1)		NA	
(C) CIRCLING	540-1 460 (500-1)	640-1 560 (600-1)	NA	

ROBSTOWN, TEXAS
Amdt 1A 08NOV18

27°47′N-97°41′W

NUECES COUNTY (RBO)
RNAV (GPS) RWY 13

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

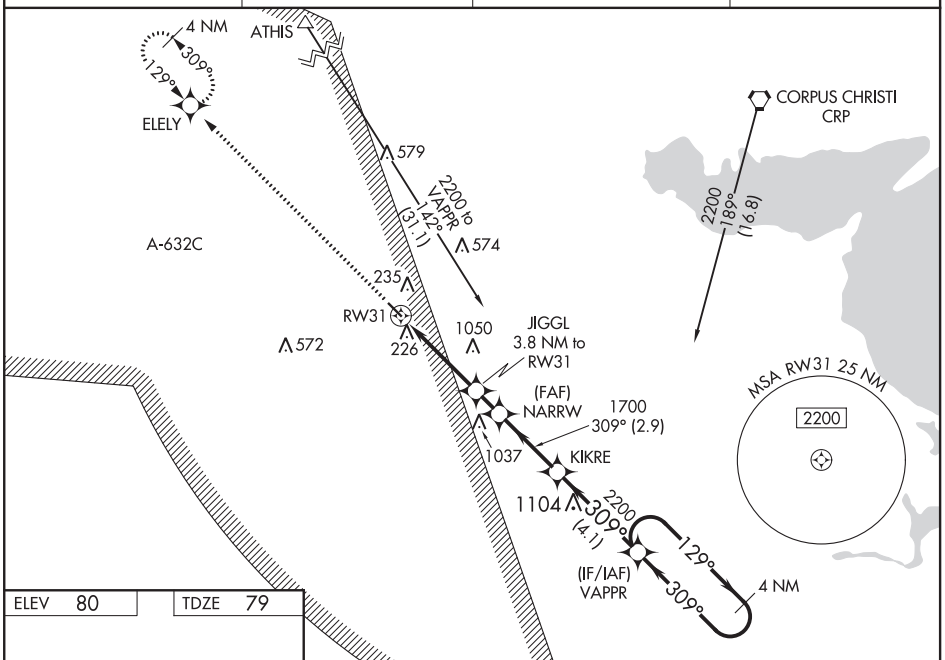
WAAS CH 50340 W31A	APP CRS 309°	Rwy ldg 3700 TDZE 79 Apt Elev 80

RNAV (GPS) RWY 31
NUECES COUNTY (RBO)

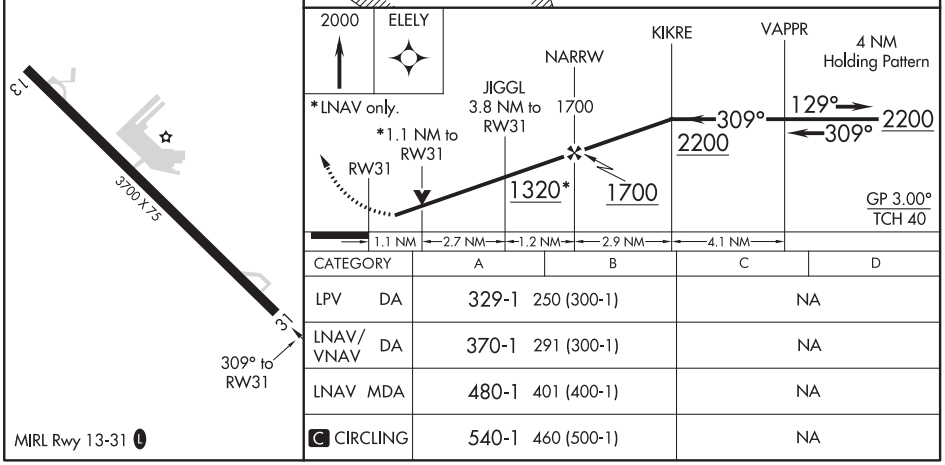
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). Circling NA northeast of Rwy 13-31. Baro-VNAV and VDP NA when using Corpus Christi Intl altimeter setting. Rwy 31 helicopter visibility reduction below ¾ SM NA. DME/DME RNP-0.3 NA. Procedure NA at night. When local altimeter not received, use Corpus Christi Intl altimeter setting and increase LPV DA to 357 feet, LNAV/VNAV DA to 398 feet and all MDA 40 feet, increase LNAV/VNAV all Cats visibility ⅛ SM.

MISSED APPROACH: Climb to 2000 direct ELELY and hold.

AWOS-3	KINGSVILLE APP CON ★	CTAF	122.8 Ⓛ
118.175	119.9 290.45	122.9	



ELEV 80	TDZE 79



CATEGORY	A	B	C	D
LPV DA	329-1 250 (300-1)		NA	
LNAV/VNAV DA	370-1 291 (300-1)		NA	
LNAV MDA	480-1 401 (400-1)		NA	
C CIRCLING	540-1 460 (500-1)		NA	

MIRL Rwy 13-31 Ⓛ

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

ROBSTOWN, TEXAS | AL-6929 (FAA) | 20282

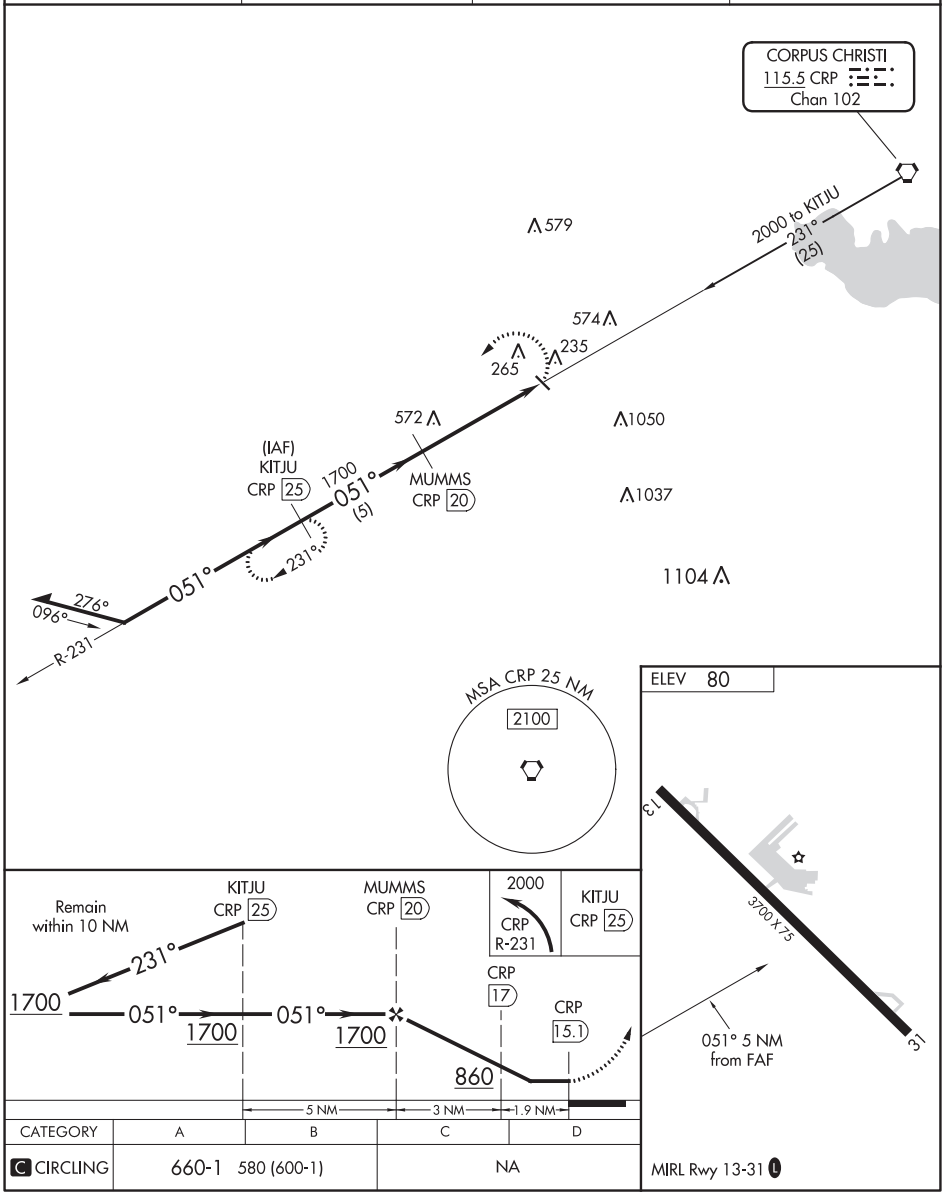
VOR/DME-A
NUECES COUNTY (RBO)

VORTAC CRP	APP CRS	Rwy ldg	N/A
115.5	051°	TDZE	N/A
Chan 102		Apt Elev	80

T A NA — When local altimeter setting not received, use Corpus Christi Intl altimeter setting. Circling not authorized northeast of Rwy 13-31.

MISSED APPROACH: Climbing left turn to 2000 via CRP R-231 to KITJU/CRP 25 DME and hold.

AWOS-3	KINGSVILLE APP CON ★	CTAF	122.8 L
118.175	119.9 290.45	122.9	



CATEGORY	A	B	C	D
C CIRCLING	660-1 580 (600-1)		NA	

MIRL Rwy 13-31 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

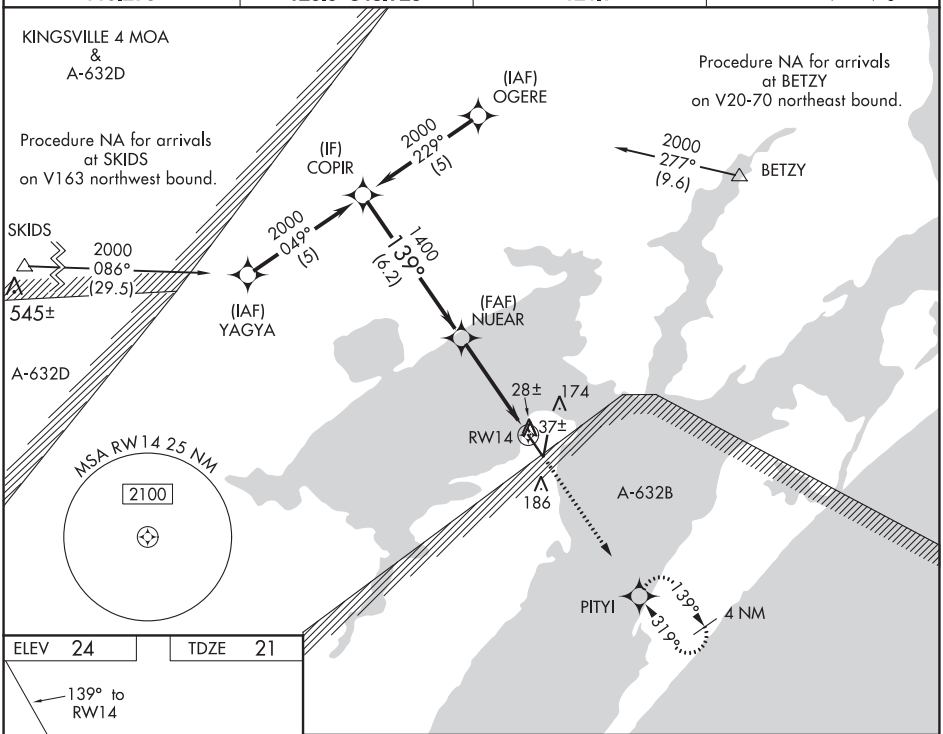
WAAS CH 53617 W14A	APP CRS 139°	Rwy ldg 5608 TDZE 21 Apt Elev 24

RNAV (GPS) RWY 14
ARANSAS COUNTY (RKP)

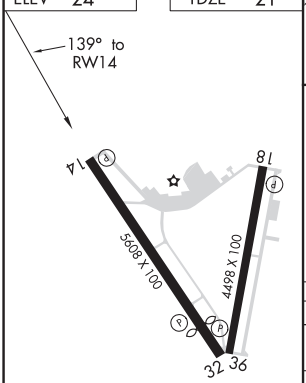
Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet increase LNAV/VNAV all Cats visibility ¼ mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH: Climb to 2000 direct PITYI and hold.

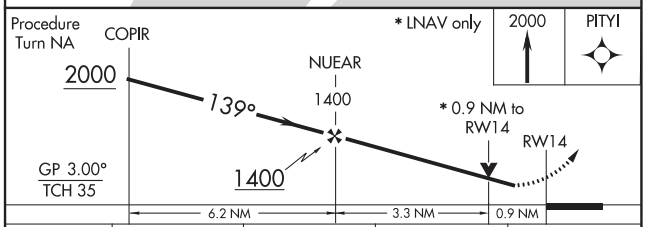
ASOS	CORPUS APP CON	CLNC DEL	UNICOM
119.275	120.9 348.725	121.7	123.05 (CTAF) L



ELEV 24 TDZE 21



REIL Rwy 14 L
MIRL Rwys 14-32 and 18-36 L



CATEGORY		A	B	C	D
LPV	DA	271-1 250 (300-1)			NA
LNAV/VNAV	DA	378-1¼ 357 (400-1¼)			NA
LNAV	MDA	320-1 299 (300-1)			NA
CIRCLING		500-1 476 (500-1)		500-1½ 476 (500-1½)	NA

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

ROCKPORT, TEXAS

AL-991 (FAA)

19339

RNAV (GPS) RWY 18

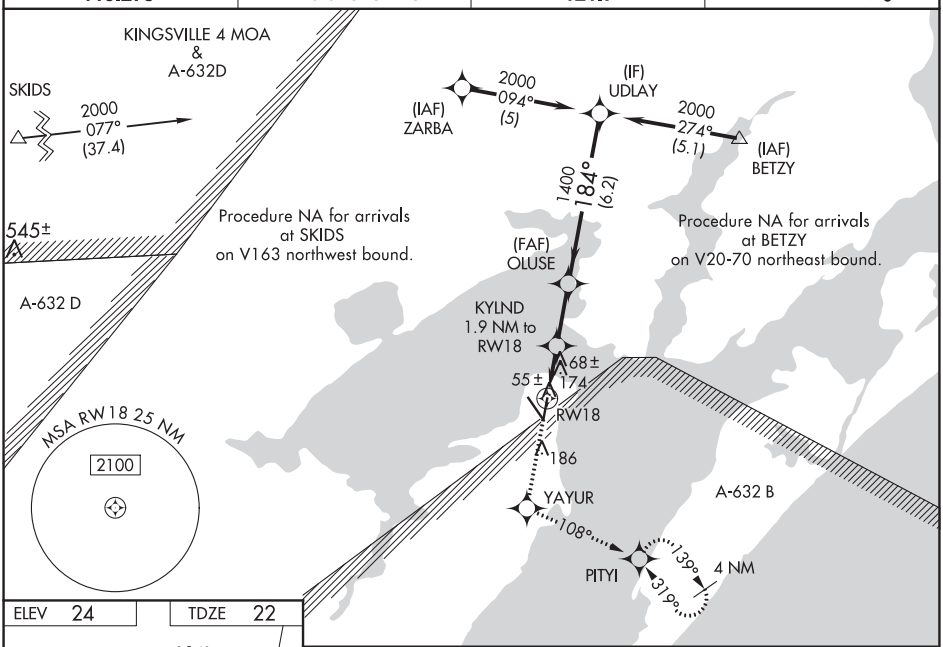
ARANSAS COUNTY (RKP)

WAAS CH 50517 W18A	APP CRS 184°	Rwy ldg 4498 TDZE 22 Apt Elev 24

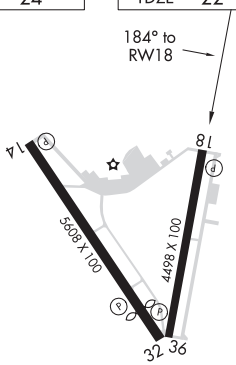
Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet; increase LNAV/VNAV visibility all Cats ¼ mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH: Climb to 2000 direct YAYUR and on track 108° to PITYI and hold, continue climb-in-hold to 2000.

ASOS	CORPUS APP CON	CLNC DEL	UNICOM
119.275	120.9 348.725	121.7	123.05 (CTAF) L

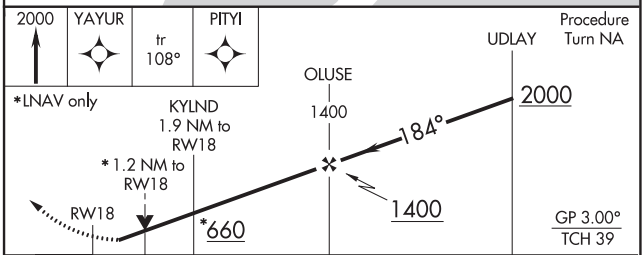


ELEV 24 | TDZE 22



REIL Rwy 14 L

MIRL Rwys 14-32 and 18-36 L



CATEGORY	A	B	C	D
LPV DA	272-1 250 (300-1)			NA
LNAV/VNAV DA	459-1½ 437 (500-1½)			NA
LNAV MDA	440-1 418 (500-1)		440-1¼ 418 (500-1¼)	NA
CIRCLING	500-1 476 (500-1)		500-1½ 476 (500-1½)	NA

ROCKPORT, TEXAS

Orig-A 04APR13

28°05'N-97°03'W

ARANSAS COUNTY (RKP)

RNAV (GPS) RWY 18

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

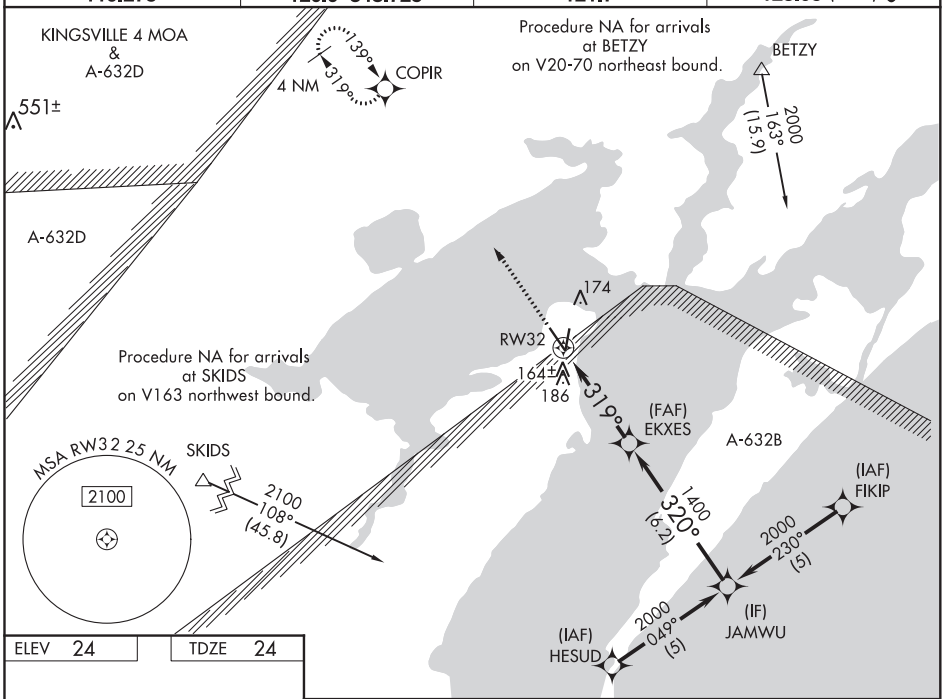
RNAV (GPS) RWY 32
ARANSAS COUNTY (RKP)

WAAS CH 45917 W32A	APP CRS 319°	Rwy ldg 5608 TDZE 24 Apt Elev 24

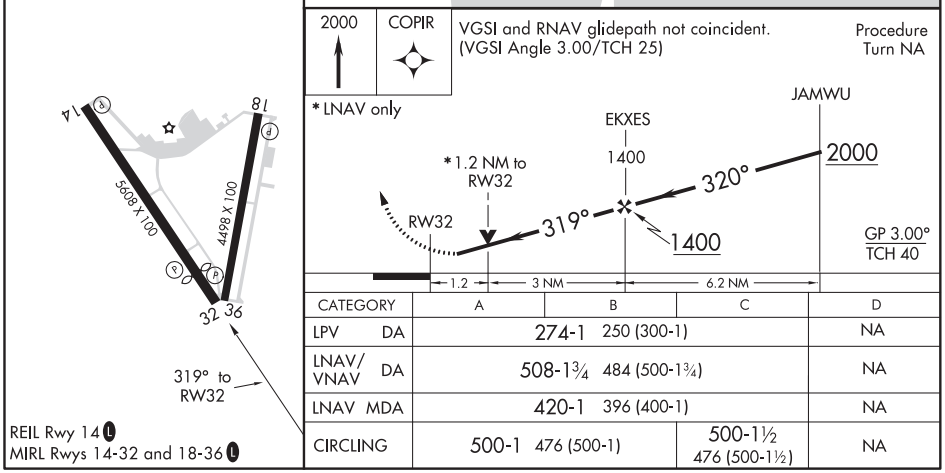
Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet, increase LNAV Cat C visibility ¼ mile. VDP NA with Ingleside altimeter setting.

MISSED APPROACH: Climb to 2000 direct COPIR and hold.

ASOS	CORPUS APP CON	CLNC DEL	UNICOM
119.275	120.9 348.725	121.7	123.05 (CTAF) L



ELEV 24	TDZE 24



CATEGORY	A	B	C	D
LPV DA	274-1 250 (300-1)			NA
LNAV/VNAV DA	508-1¾ 484 (500-1¾)			NA
LNAV MDA	420-1 396 (400-1)			NA
CIRCLING	500-1 476 (500-1)		500-1½ 476 (500-1½)	NA

REIL Rwy 14 L
MIRL Rwys 14-32 and 18-36 L

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

ROCKPORT, TEXAS | AL-991 (FAA) | 19339

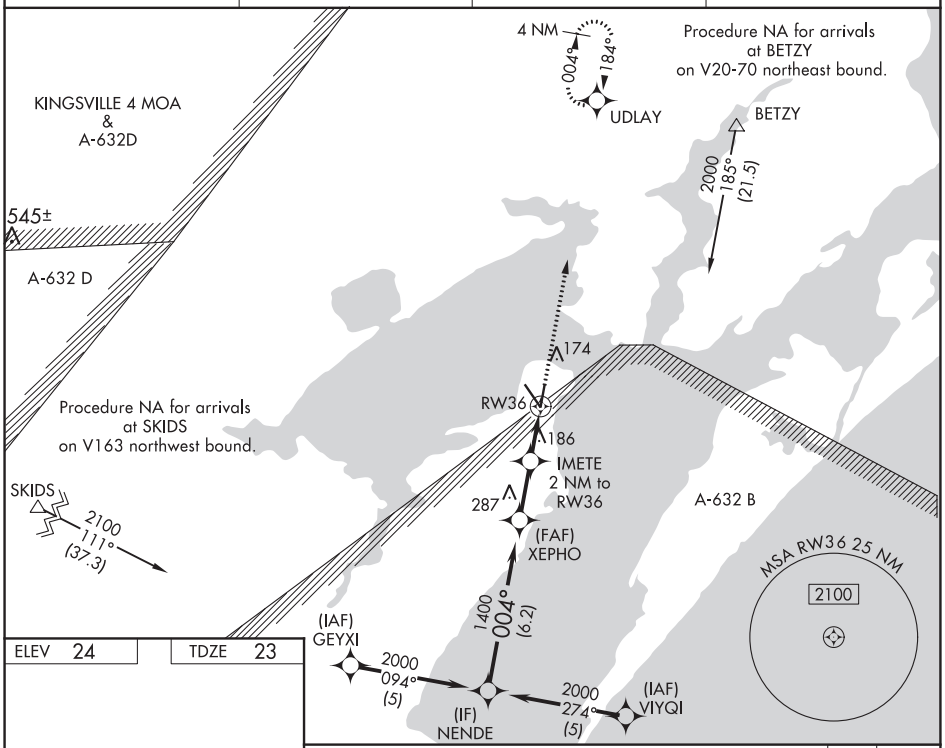
WAAS CH 61317 W36A	APP CRS 004°	Rwy ldg 4498 TDZE 23 Apt Elev 24

RNAV (GPS) RWY 36
ARANSAS COUNTY (RKP)

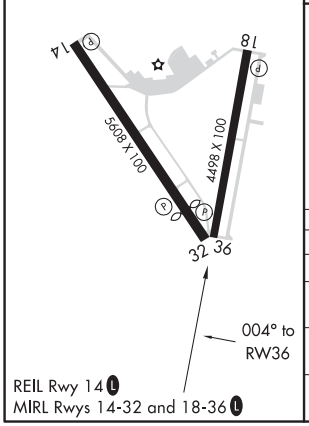
Baro-VNAV NA when using Ingleside altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Ingleside altimeter setting and increase all DA 33 feet and all MDA 40 feet. VDP NA with Ingleside altimeter setting.

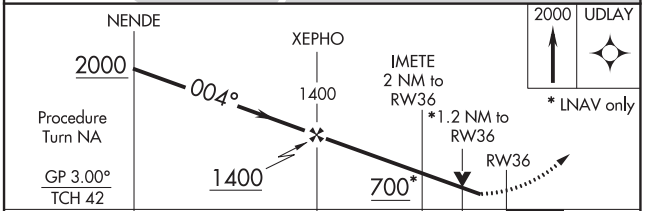
MISSED APPROACH: Climb to 2000 direct UDLAY and hold.

ASOS	CORPUS APP CON	CLNC DEL	UNICOM
119.275	120.9 348.725	121.7	123.05 (CTAF) L



ELEV 24 | TDZE 23





CATEGORY	A	B	C	D
LPV DA	273-1 250 (300-1)			NA
LNAV/VNAV DA	498-1¾ 475 (500-1¾)			NA
LNAV MDA	440-1 417 (500-1)		440-1¼ 417 (500-1¼)	NA
CIRCLING	500-1 476 (500-1)		500-1½ 476 (500-1½)	NA

ROCKPORT, TEXAS | 28°05′ N-97°03′ W | ARANSAS COUNTY (RKP)

Orig 03JUN10

RNAV (GPS) RWY 36

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

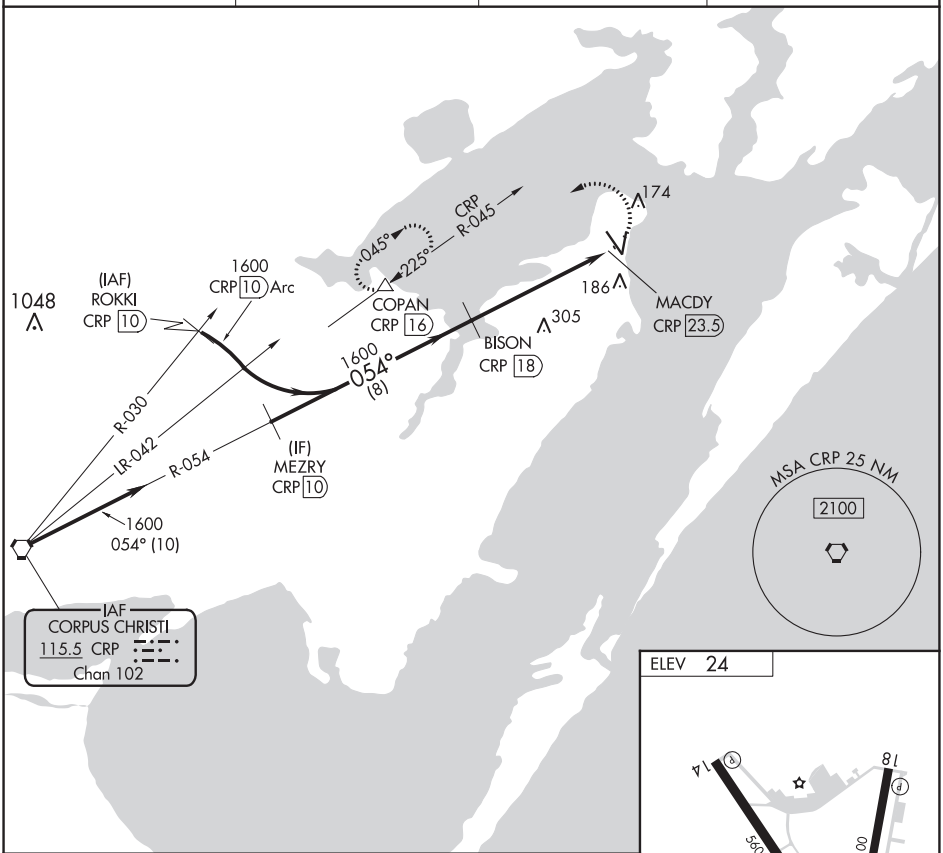
VOR or TACAN-A
ARANSAS COUNTY (RKP)

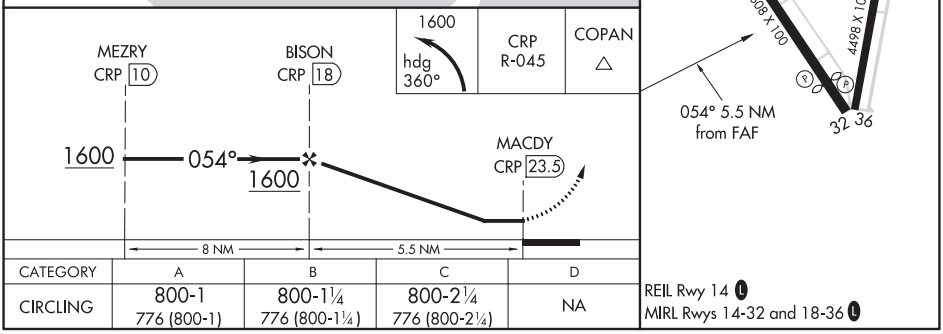
VORTAC CRP	APP CRS	Rwy ldg	N/A
115.5	054°	TDZE	N/A
Chan 102		Apt Elev	24

DME required.

MISSED APPROACH: Climbing left turn to 1600 on heading 360° and CRP VORTAC R-045 to COPAN/16 DME and hold.

ASOS	CORPUS APP CON	CLNC DEL	UNICOM
119.275	120.9 348.725	121.7	123.05 (CTAF) L





CATEGORY	A	B	C	D
CIRCLING	800-1 776 (800-1)	800-1¼ 776 (800-1¼)	800-2¼ 776 (800-2¼)	NA

REIL Rwy 14 L
MIRL Rwys 14-32 and 18-36 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

ROCKSPRINGS, TEXAS

AL-6005 (FAA)

20282

RNAV (GPS) RWY 14
EDWARDS COUNTY (ECU)

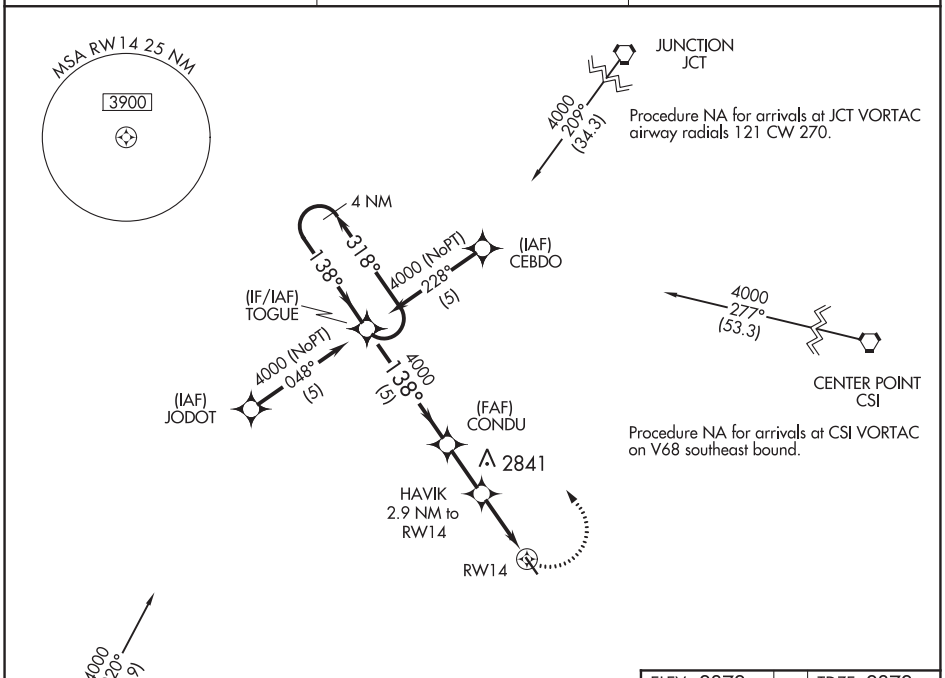
APP CRS	Rwy ldg	3772
138°	TDZE	2372
	Apt Elev	2372

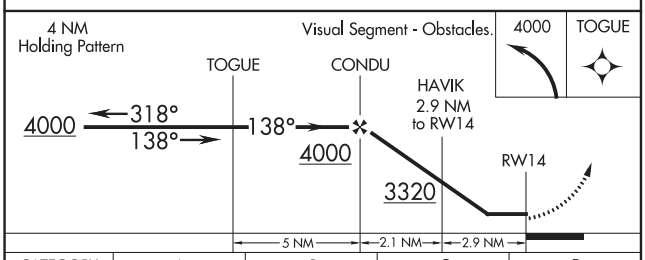
T
A NA

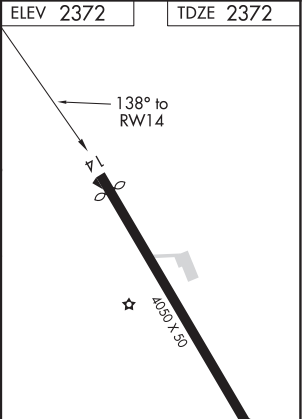
DME/DME RNP-0.3 NA.
Procedure NA at night.
Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing left turn to 4000 direct TOGUE and hold.

AWOS-3	DEL RIO APP CON *	CTAF
118.175	119.6 259.1	122.9







CATEGORY	A	B	C	D
LNAV MDA	2960-1 588 (600-1)		2960-1½ 588 (600-1½)	NA
C CIRCLING	3000-1 628 (700-1)		3000-1¾ 628 (700-1¾)	NA

ROCKSPRINGS, TEXAS
Orig-C 08OCT20

29°57'N-100°10'W

EDWARDS COUNTY (ECU)
RNAV (GPS) RWY 14

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

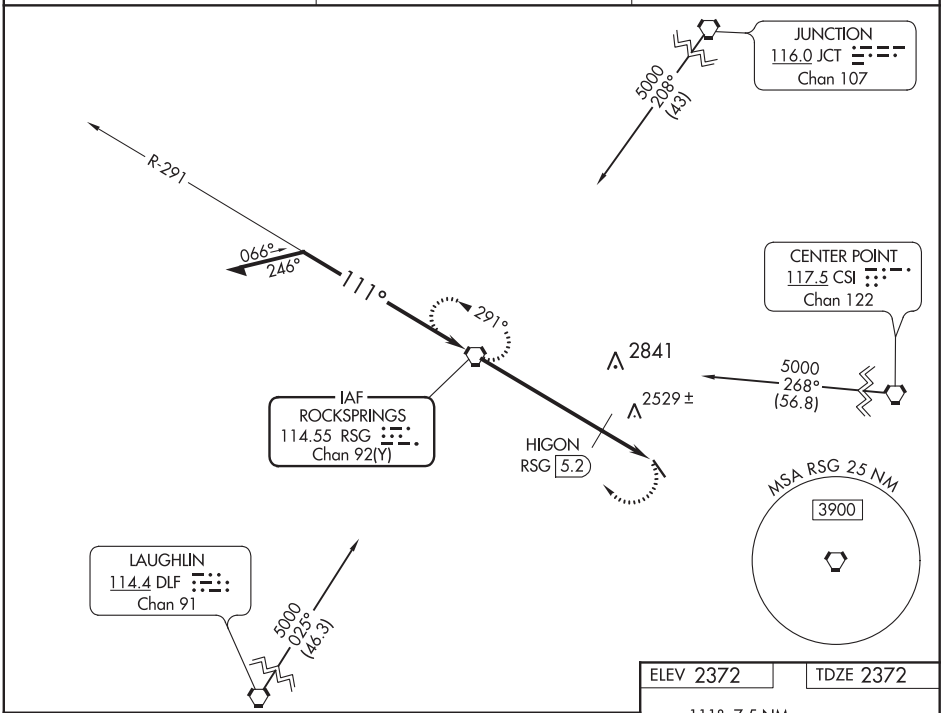
VOR RWY 14
EDWARDS COUNTY (ECU)

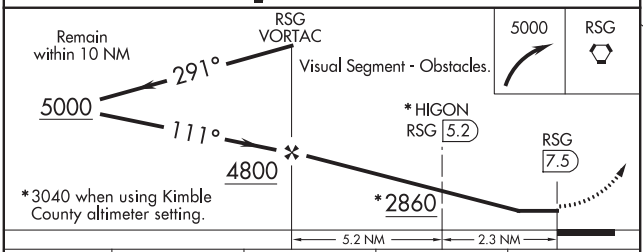
VORTAC RSG	APP CRS	Rwy ldg	3772
114.55	111°	TDZE	2372
Chan 92(Y)		Apt Elev	2372

If local altimeter setting not received, use Kimble County altimeter setting and increase all MDAs 180 feet. VDP NA when using Kimble County altimeter setting. Visibility reduction by helicopters NA. Procedure NA at night. Helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 5000 direct RSG VORTAC and hold, continue climb-in-hold to 5000.

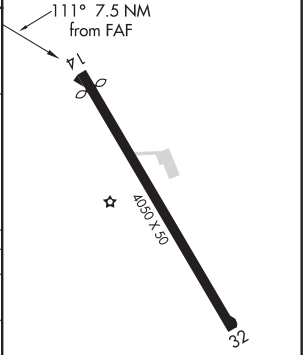
AWOS-3	DEL RIO APP CON *	CTAF
118.175	119.6 259.1	122.9





CATEGORY	A	B	C	D
S-14	2860-1 488 (500-1)		2860-1¼ 488 (500-1¼)	NA
CIRCLING	2860-1 488 (500-1)		2860-1½ 488 (500-1½)	NA
HIGON FIX MINIMUMS				
S-14	2780-1 408 (500-1)		2780-1¼ 408 (500-1¼)	NA
C CIRCLING	2800-1 428 (500-1)	2840-1 468 (500-1)	2840-1½ 468 (500-1½)	NA

ELEV 2372 TDZE 2372



MIRL Rwy 14-32

FAF to MAP 7.5 NM					
Knots	60	90	120	150	180
Min:Sec	7:30	5:00	3:45	3:00	2:30

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANGELO, TEXAS

AL-367 (FAA)

20254

ILS Y or LOC Y RWY 3

SAN ANGELO RGNL/MATHIS FIELD (SJT)

LOC/DME I-SJT	APP CRS	Rwy ldg	5940
109.7	038°	TDZE	1917
Chan 34		Apt Elev	1919

ADF or DME required for procedure entry.

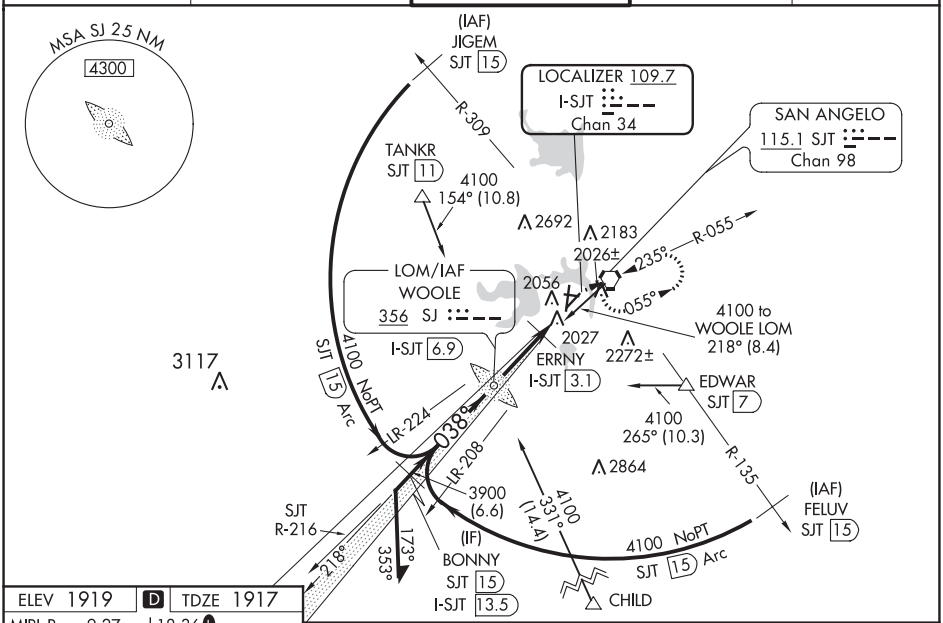
Autopilot coupled approach NA below 2685. For inop ALS, increase S-ILS 3 Cat E visibility to RVR 4000, S-LOC 3 Cat C/D/E visibility to 2 SM. Circling NA for Cat E west of Rwy 18-36. ERRNY DME minimums: For Inop ALS, increase S-LOC 3 Cat C/D/E visibility to RVR 5500.
RVR 1800 authorized with use of FD or AP or HUD to DA.

ASR

MALSR

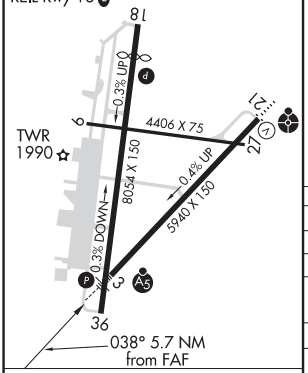
MISSED APPROACH: Climb to 4000 then right turn direct SJT VORTAC and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95



ELEV 1919 | D | TDZE 1917

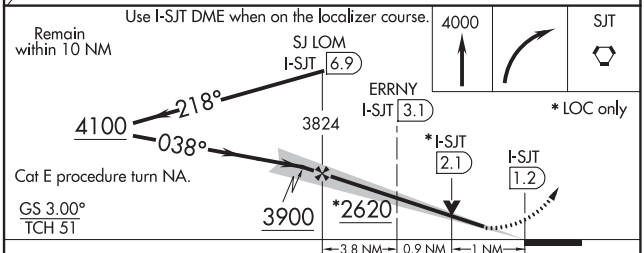
MIRL Rwys 9-27 and 18-36 L
HIRL Rwy 3-21 L
REIL Rwy 18 L



FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

Use I-SJT DME when on the localizer course.

Remain within 10 NM



CATEGORY	A	B	C	D	E
S-ILS 3 #	2117/24 200 (200-½)				
S-LOC 3	2620/24 703 (800-½)		2620-1⅝ 703 (800-1⅝)		
C CIRCLING	2620-1 701 (800-1)		2620-2 701 (800-2)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)
ERRNY DME MINIMUMS					
S-LOC 3	2280/24 363 (400-½)		2280/35 363 (400-⅝)		
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 77517 W03A	APP CRS 038°	Rwy ldg 5940 TDZE 1917 Apt Elev 1919

RNAV (GPS) RWY 3
SAN ANGELO RGNL/MATHIS FIELD(SJT)

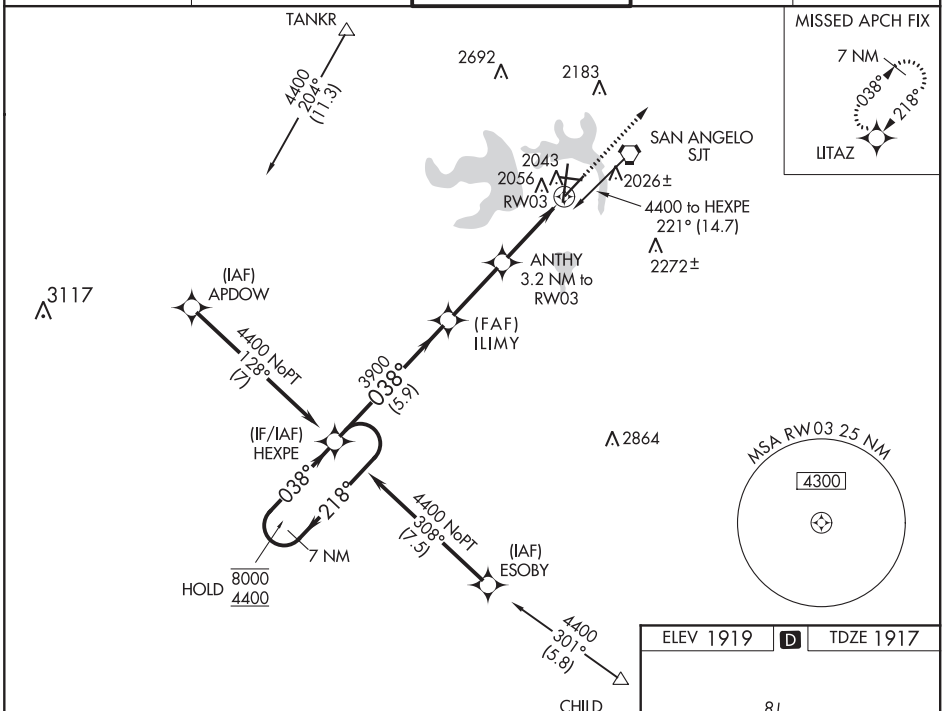
RNP APCH.

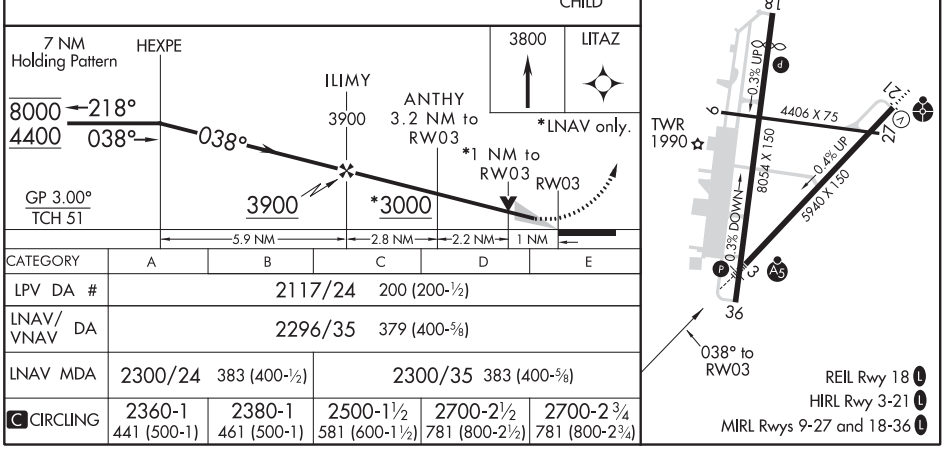
ASR: For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C or above 54°C. For inop ALS, increase LPV Cat E visibility to RVR 4000, and LNAV/VNAV Cat E and LNAV Cat E visibility to RVR 6000. Circling NA for Cat E west of Rwy 18-36. # RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

MISSED APPROACH: Climb to 3800 direct LITAZ and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3(CTAF) L 284.7	121.9 348.6	122.95





CATEGORY	A	B	C	D	E
LPV DA #	2117/24 200 (200-½)				
LNAV/VNAV DA	2296/35 379 (400-⅝)				
LNAV MDA	2300/24 383 (400-½)		2300/35 383 (400-⅝)		
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANGELO, TEXAS

AL-367 (FAA)

20254

RNAV (GPS) RWY 18
SAN ANGELO RGNL/MATHIS FIELD (SJT)

WAAS CH 93801 W18A	APP CRS 182°	Rwy ldg 7152 TDZE 1908 Apt Elev 1919

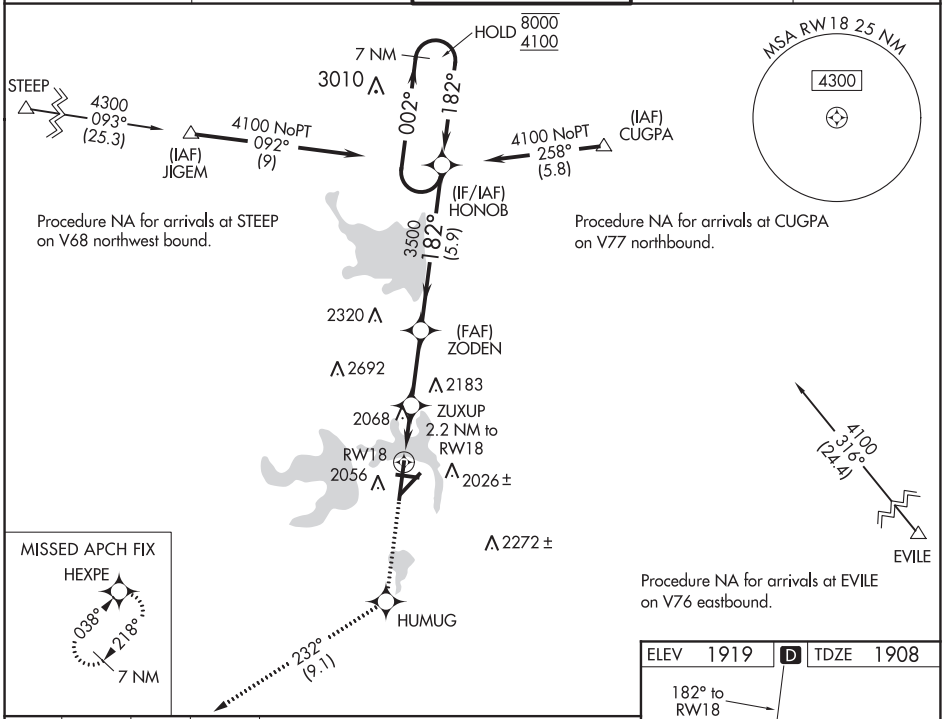
RNP APCH.

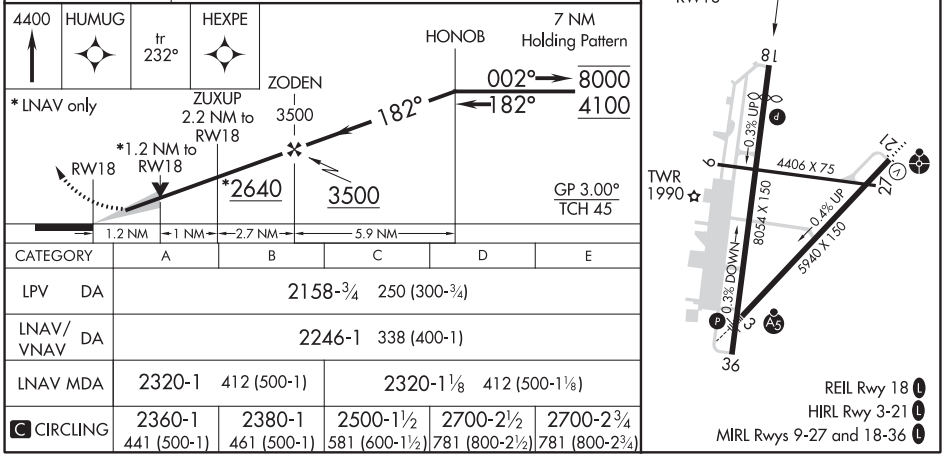
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C or above 54°C. Circling NA for Cat E west of Rwy 18-36.

ASR

MISSED APPROACH: Climb to 4400 direct HUMUG and on track 232° to HEXPE and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95





CATEGORY	A	B	C	D	E
LPV DA	2158-¾ 250 (300-¾)				
LNAV/VNAV DA	2246-1 338 (400-1)				
LNAV MDA	2320-1 412 (500-1)		2320-1⅛ 412 (500-1⅛)		
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

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WAAS CH 81817 W21A	APP CRS 218°	Rwy ldg 5940 TDZE 1906 Apt Elev 1919

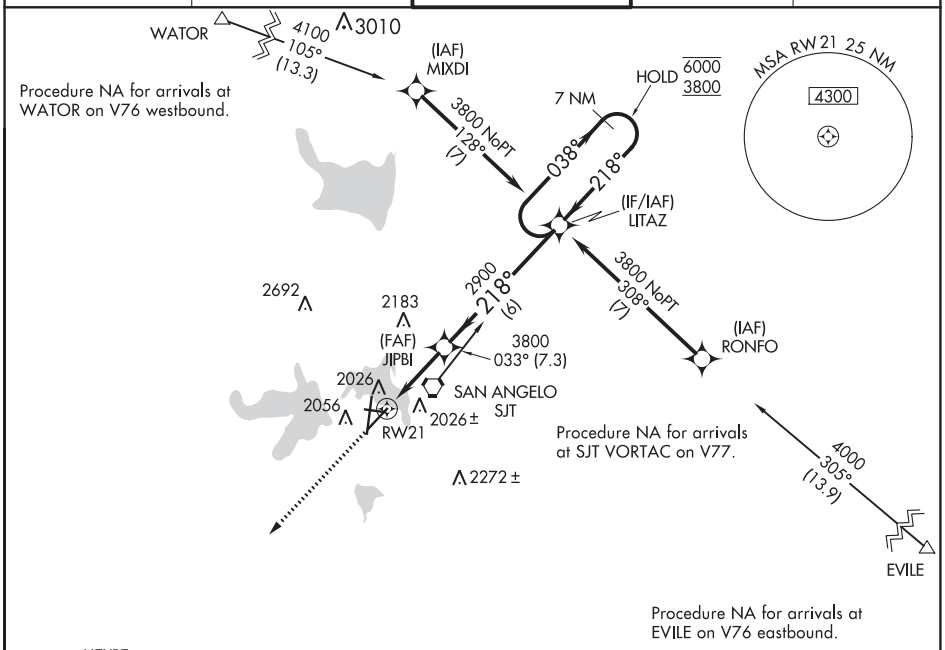
RNAV (GPS) RWY 21
SAN ANGELO RGNL/MATHIS FIELD (SJT)

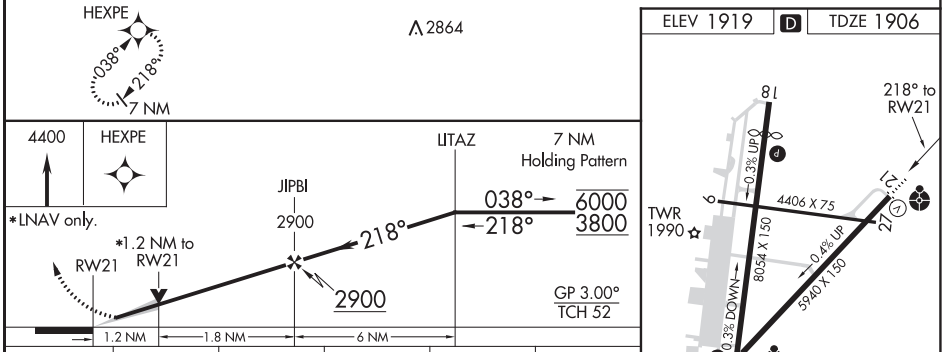
RNP APCH.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C or above 54°C.
ASR Circling NA for Cat E west of Rwy 18-36. Inop table does not apply to LPV. For inop ALS, increase LNAV/VNAV Cat A/B/E visibility to 1 SM; increase LNAV Cat E visibility to 1¼ SM.

ODALS

MISSED APPROACH: Climb to 4400 direct HEXPE and hold.

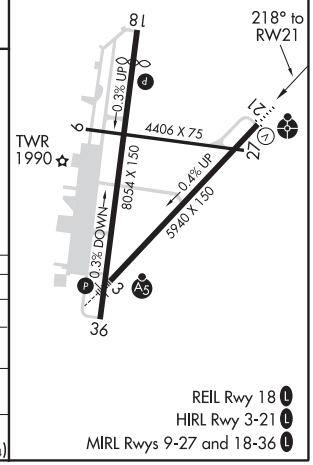
ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95





CATEGORY	A	B	C	D	E
LPV DA	2106-¾ 200 (200-¾)				
LNAV/VNAV DA	2250-⅞ 344 (400-⅞)				
LNAV MDA	2340-¾ 434 (500-¾)		2340-1⅛ 434 (500-1⅛)		
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

ELEV 1919 | D | TDZE 1906



REIL Rwy 18 L
HIRL Rwy 3-21 L
MIRL Rwys 9-27 and 18-36 L

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SAN ANGELO, TEXAS

AL-367 (FAA)

21056

RNAV (GPS) RWY 36

SAN ANGELO RGNL/MATHIS FIELD (SJT)

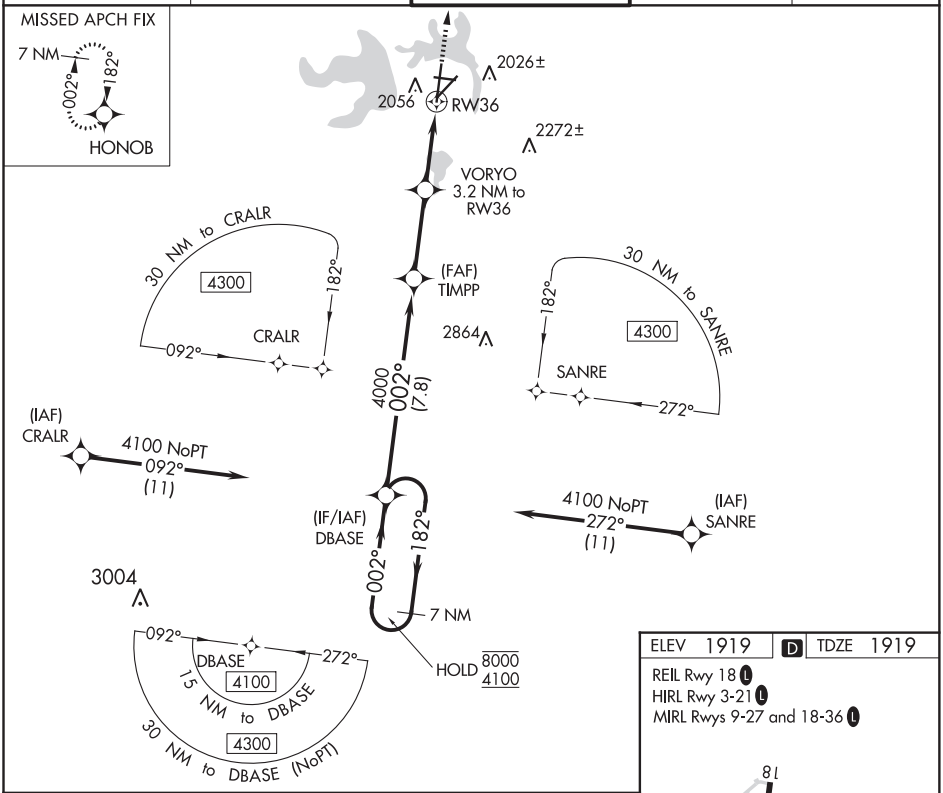
WAAS	APP CRS	Rwy ldg	7152
61243	002°	TDZE	1919
		Apt Elev	1919

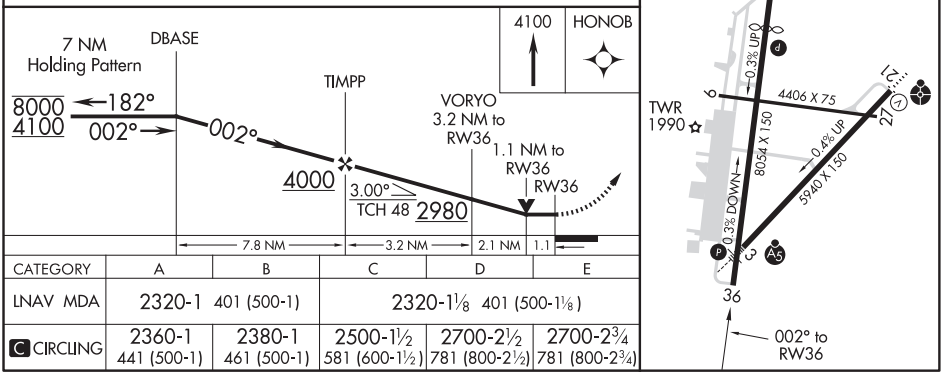
RNP APCH.

T A Circling NA for Cat E west of Rwy 18-36.
Rwy 36 helicopter visibility reduction below ¾ SM NA.

MISSED APPROACH: Climb to 4100 direct HONOB and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95





CATEGORY	A	B	C	D	E
LNAV MDA	2320-1 401 (500-1)		2320-1⅛ 401 (500-1⅛)		
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

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VORTAC SJT 115.1 Chan 98	APP CRS 045°	Rwy ldg 5940 TDZE 1917 Apt Elev 1919

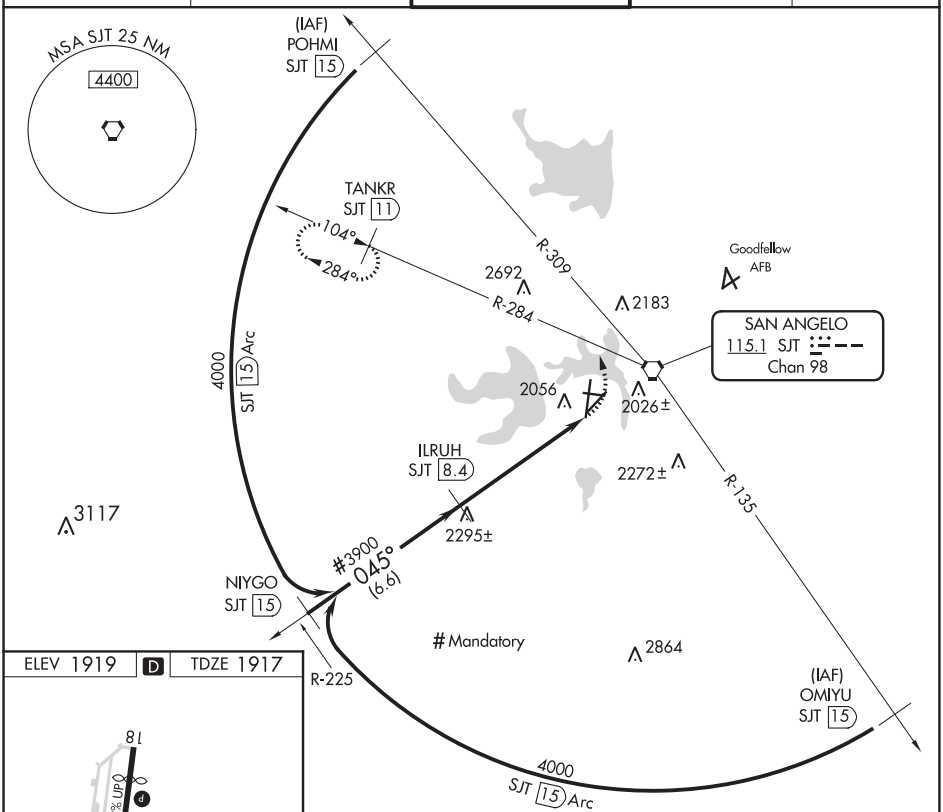
VOR/DME or TACAN RWY 3
SAN ANGELO RGNL/MATHIS FIELD (SJT)

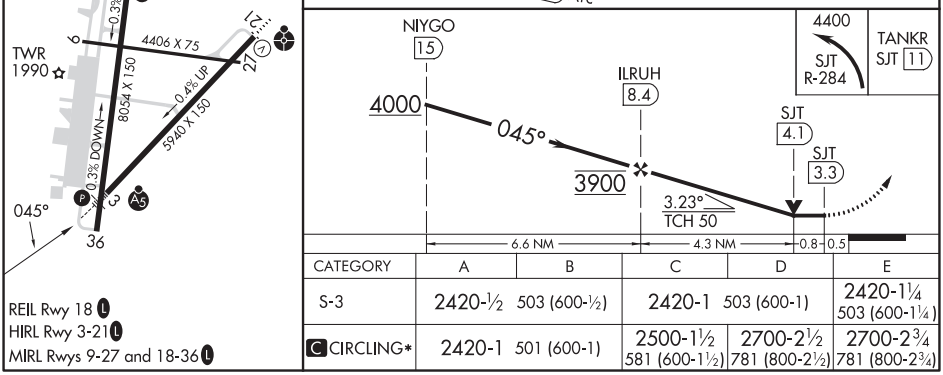
T A ASR *Cat E Circling NA west of Rwy 18-36.

MALSR A5

MISSED APPROACH: Climbing left turn to 4400 via SJT R-284 to TANKR/11 DME and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95





REIL Rwy 18 L
HIRL Rwy 3-21 L
MIRL Rwys 9-27 and 18-36 L

CATEGORY	A	B	C	D	E
S-3	2420-½ 503 (600-½)		2420-1 503 (600-1)		2420-1¼ 503 (600-1¼)
C CIRCLING*	2420-1 501 (600-1)		2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)	2700-2¾ 781 (800-2¾)

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SAN ANGELO, TEXAS

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VOR RWY 21

SAN ANGELO RGNL/MATHIS FIELD (SJT)

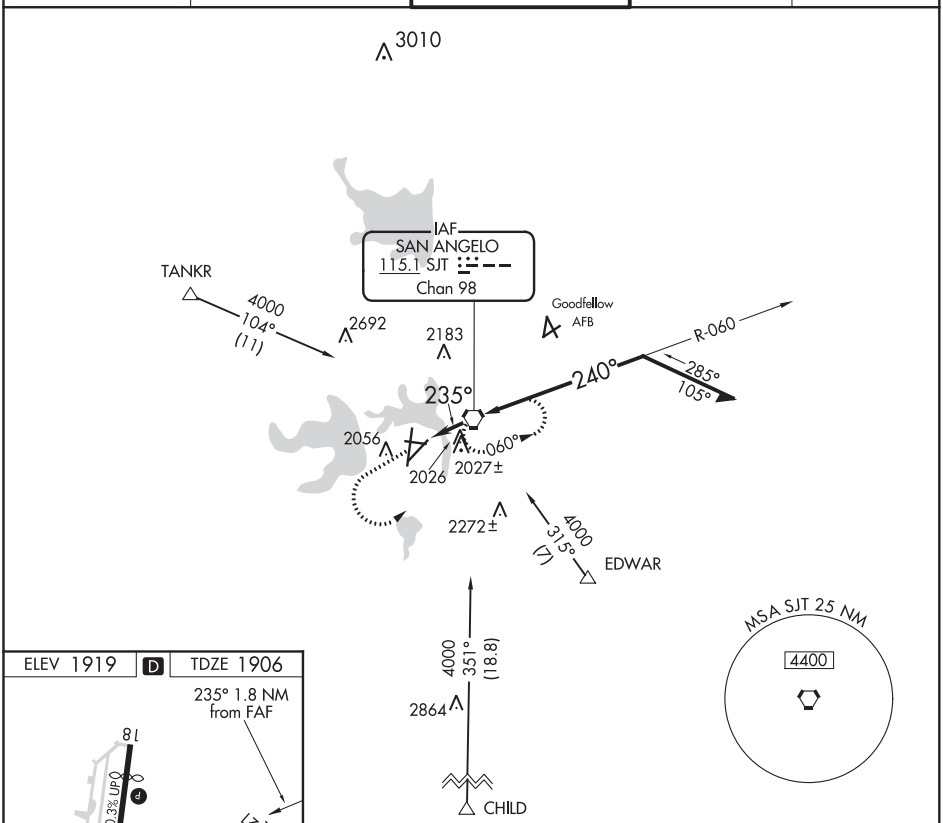
VORTAC SJT	APP CRS	Rwy ldg	5940
115.1	235°	TDZE	1906
Chan 98		Apt Elev	1919

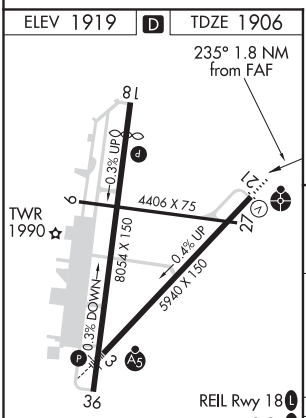
ASR

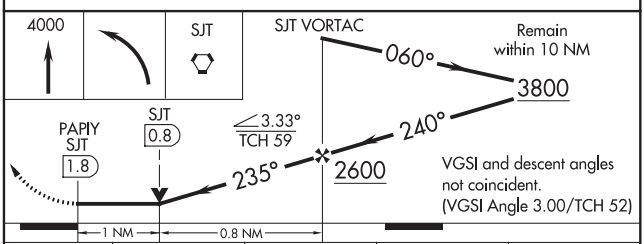
ODALS

MISSED APPROACH: Climb to 4000 then left turn direct SJT VORTAC and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95







FAF to MAP 1.8 NM					
Knots	60	90	120	150	180
Min:Sec	1:48	1:12	0:54	0:43	0:36

CATEGORY	A	B	C	D
S-21	2280-¾ 374 (400-¾)			2280-1¼ 374 (400-1¼)
C CIRCLING	2360-1 441 (500-1)	2380-1 461 (500-1)	2500-1½ 581 (600-1½)	2700-2½ 781 (800-2½)

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NDB RWY 3

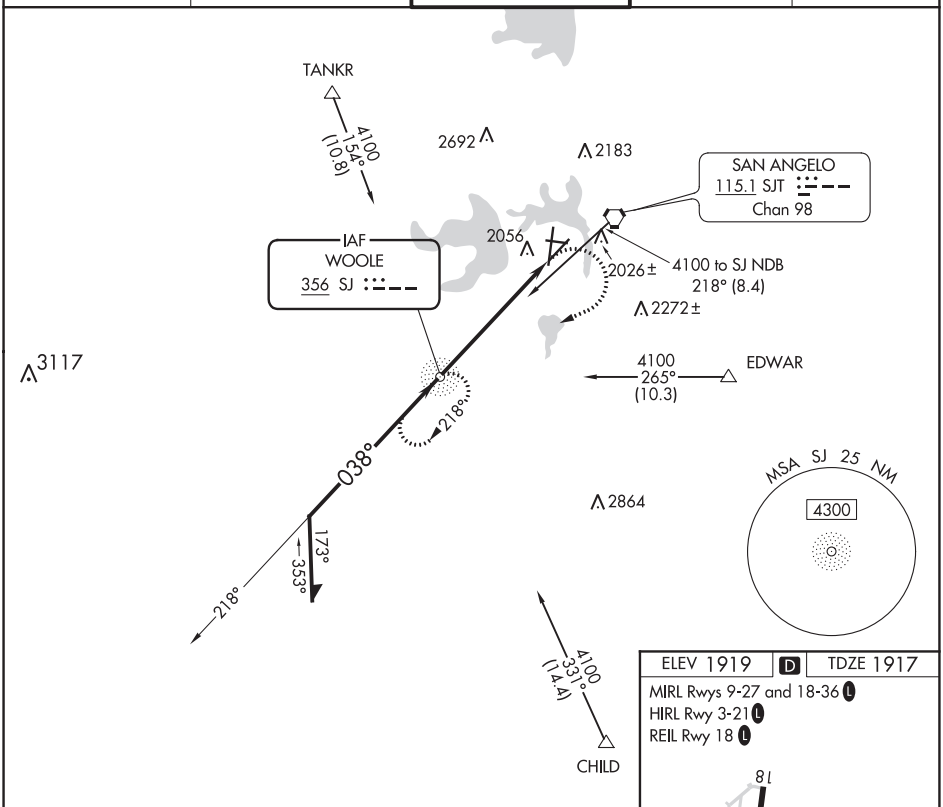
SAN ANGELO RGNL/MATHIS FIELD (SJT)

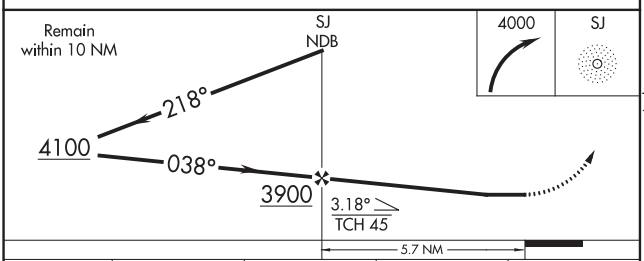
NDB SJ	APP CRS	Rwy ldg	5940
356	038°	TDZE	1917
		Apt Elev	1919

T A ASR — For inop ALS, increase Cat A/B visibility to RVR 5500, and Cat C/D to 2 SM.

MALSR A5 — MISSED APPROACH: Climbing right turn to 4000 direct SJ NDB and hold.

ATIS	SAN ANGELO APP CON ★	MATHIS TOWER ★	GND CON	UNICOM
128.45 319.0	125.35 354.1	118.3 (CTAF) L 284.7	121.9 348.6	122.95

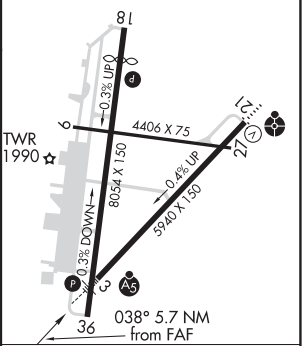




CATEGORY	A	B	C	D
S-3	2640/40 723 (800-¾)		2640-1⅝ 723 (800-1⅝)	
C CIRCLING	2640-1 721 (800-1)		2640-2 721 (800-2)	2700-2½ 781 (800-2½)

ELEV 1919 | D | TDZE 1917

MIRL Rwys 9-27 and 18-36 L
HIRL Rwy 3-21 L
REIL Rwy 18 L



FAF to MAP 5.7 NM					
Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

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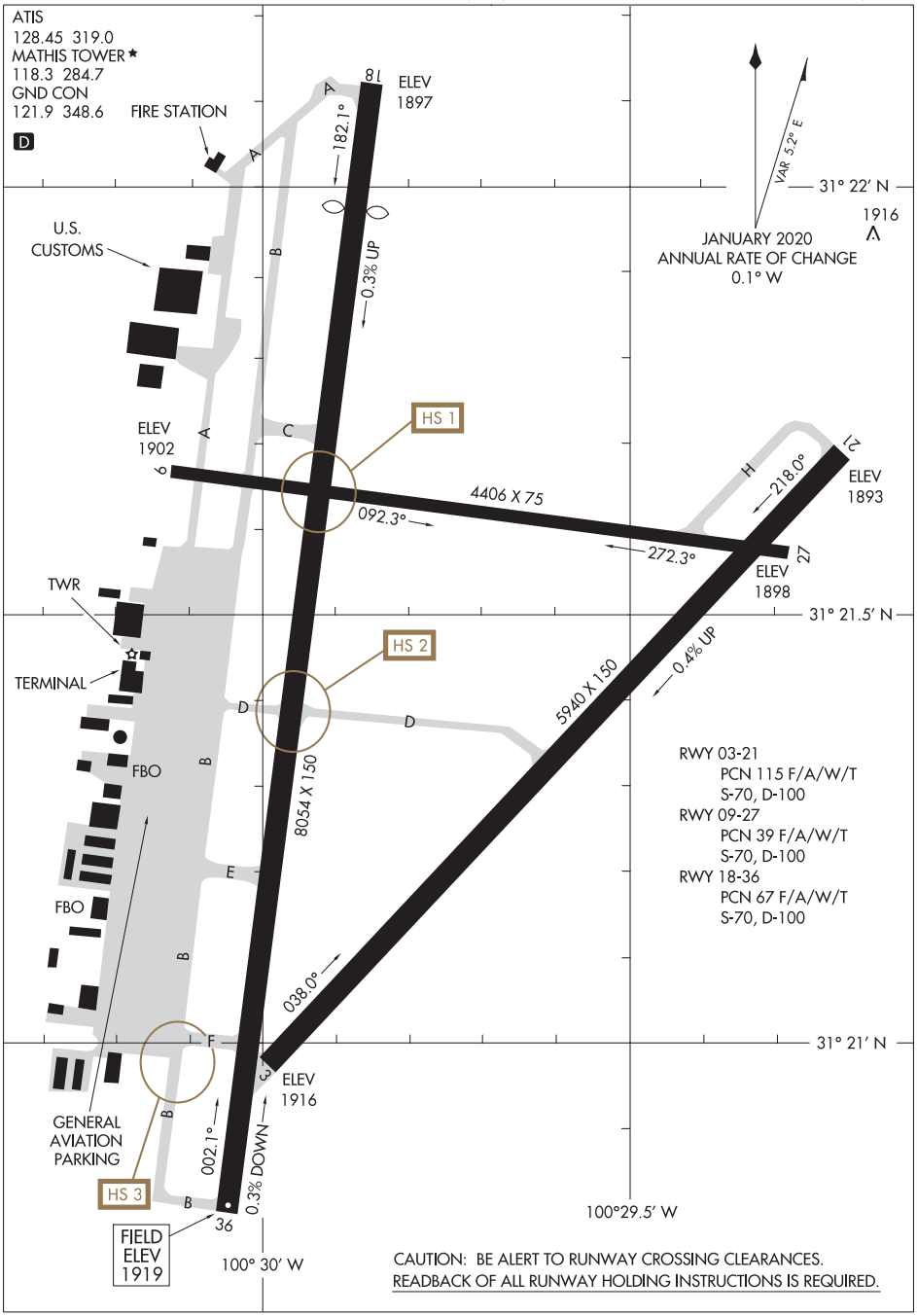
AIRPORT DIAGRAM

SAN ANGELO RGNL/ MATHIS FIELD (SJT)

AL-367 (FAA)

SAN ANGELO, TEXAS



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AIRPORT DIAGRAM

SAN ANGELO, TEXAS

SAN ANGELO RGNL/ MATHIS FIELD (SJT)

20254

WAAS CH 50528 W17A	APP CRS 169°	Rwy ldg 4377 TDZE 1384 Apt Elev 1384

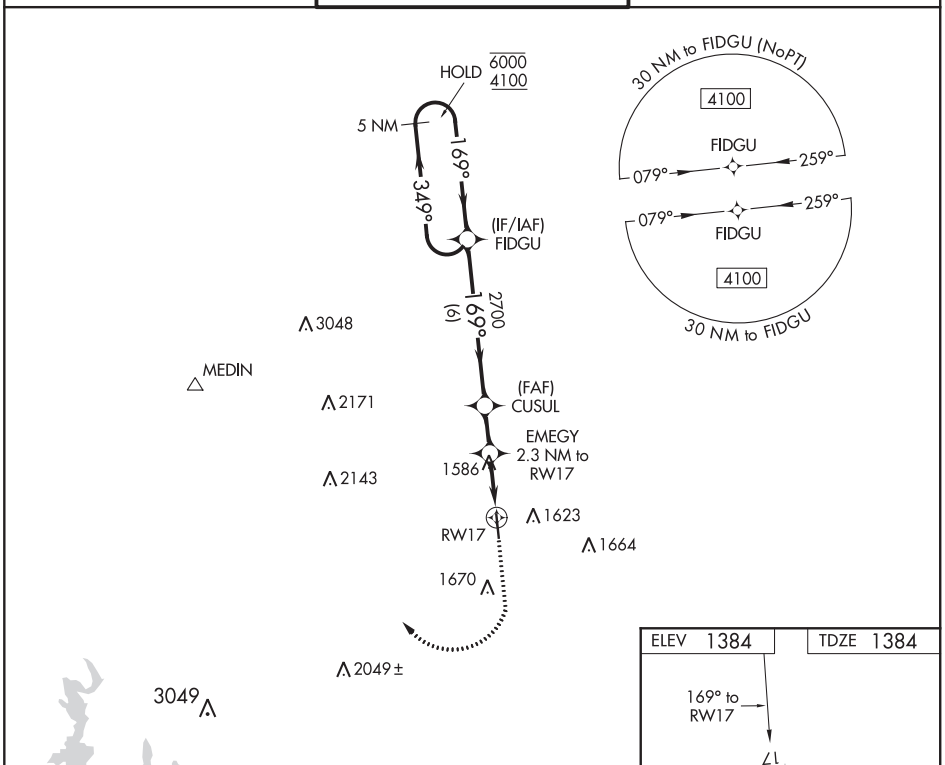
RNAV (GPS) RWY 17
BOERNE STAGE FIELD (5C1)

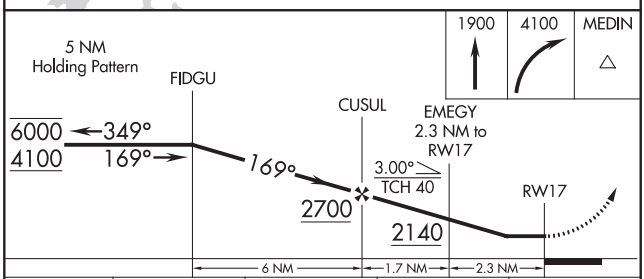
RNP APCH.

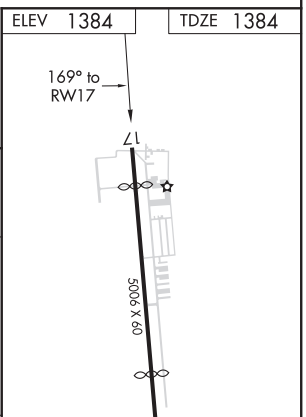
Rwy 17 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use KSAT altimeter setting and increase all MDA 120 feet. Procedure NA at night.

MISSED APPROACH: Climb to 1900 then climbing right turn to 4100 direct MEDIN.

AWOS-3	SAN ANTONIO APP CON	UNICOM
118.725	125.1 307.0	123.0 (CTAF)







LIRL Rwy 17-35

CATEGORY	A	B	C	D
LP MDA	1840-1 456 (500-1)		NA	
LNAV MDA	1840-1 456 (500-1)		NA	

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WAAS CH 69428 W35A	APP CRS 349°	Rwy ldg 3920 TDZE 1385 Apt Elev 1385

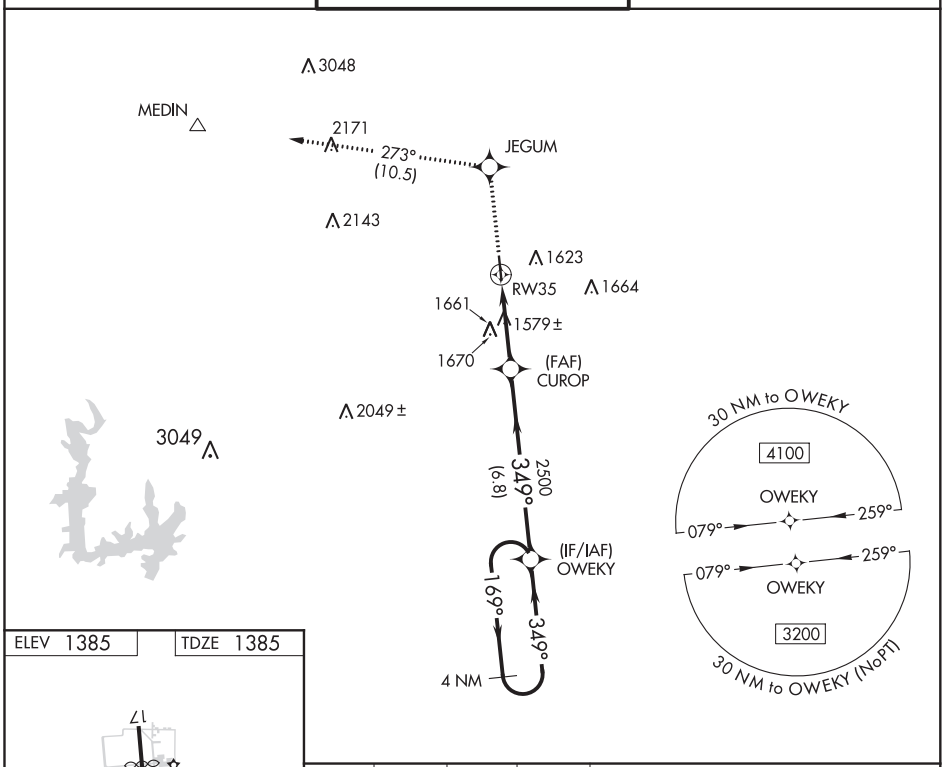
RNAV (GPS) RWY 35
BOERNE STAGE FIELD (5C1)

RNP APCH.

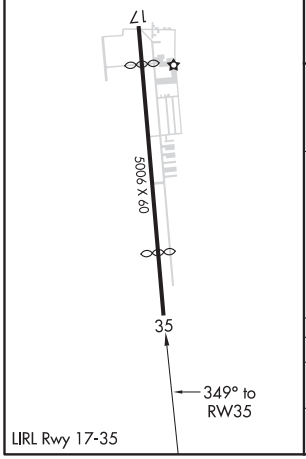
Rwy 35 helicopter visibility reduction below 1 SM NA. When local altimeter setting not received, use San Antonio Intl altimeter setting and increase all MDA 120 feet. Procedure NA at night.

MISSED APPROACH: Climb to 4100 direct JEGUM and on track 273° to MEDIN.

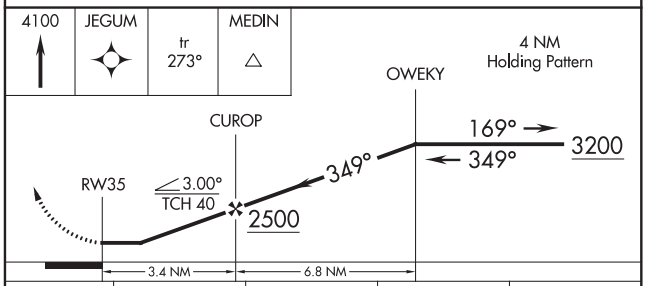
AWOS-3	SAN ANTONIO APP CON	UNICOM
118.725	125.1 307.0	123.0 (CTAF)



ELEV 1385 | TDZE 1385



LIRL Rwy 17-35



CATEGORY	A	B	C	D
LP MDA	1840-1 455 (500-1)		NA	
LNAV MDA	1920-1 535 (600-1)		NA	

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ILS or LOC RWY 4
SAN ANTONIO INTL (SAT)

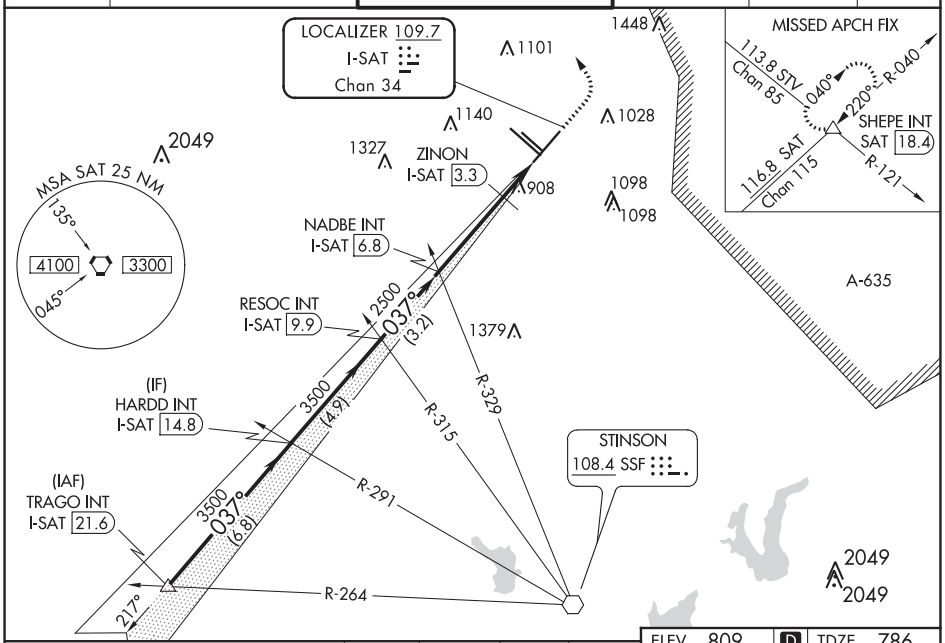
LOC/DME I-SAT	APP CRS	Rwy ldg	8505
109.7	037°	TDZE	786
Chan 34		Apt Elev	809

T Inop table does not apply to S-ILS 4. Circling NA west of Rwys 4 and 13R. Autopilot coupled approach NA below 1189. For inop ALS, increase S-LOC 4 Cat D visibility to 1¼ SM. ZINON fix minimums: for inop ALS, increase S-LOC 4 Cat D visibility to RVR 5000.

MALS A4

MISSED APPROACH: Climb to 1700 then climbing left turn to 3500 on heading 025° and SAT VORTAC R-040 to SHEPE INT/SAT 18.4 DME and hold.

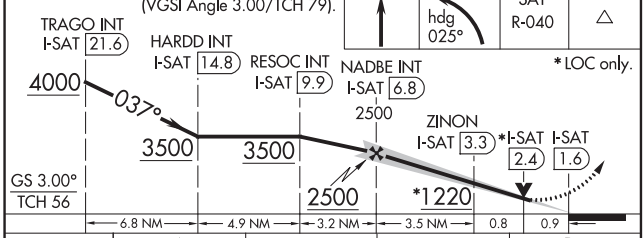
D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



VGSI and ILS glidepath not coincident (VGSI Angle 3.00/TCH 79).

1700	3500 hdg 025°	SAT R-040	SHEPE △

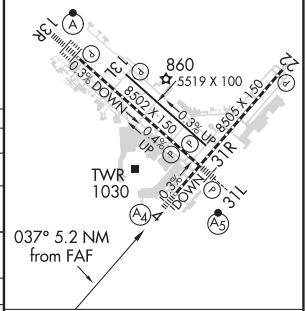
*LOC only.



CATEGORY	A	B	C	D
S-ILS 4	986/40 200 (200-¾)			
S-LOC 4	1220/40 434 (500-¾)		1220/50 434 (500-1)	
CIRCLING	1300-1 491 (500-1)		1320-1½ 511 (600-1½)	1380-2 571 (600-2)
ZINON FIX MINIMUMS (DME REQUIRED)				
S-LOC 4	1120/40 334 (400-¾)			
CIRCLING	1300-1 491 (500-1)		1320-1½ 511 (600-1½)	1380-2 571 (600-2)

ELEV 809 | D | TDZE 786

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R



FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

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ILS or LOC RWY 13R
SAN ANTONIO INTL (SAT)

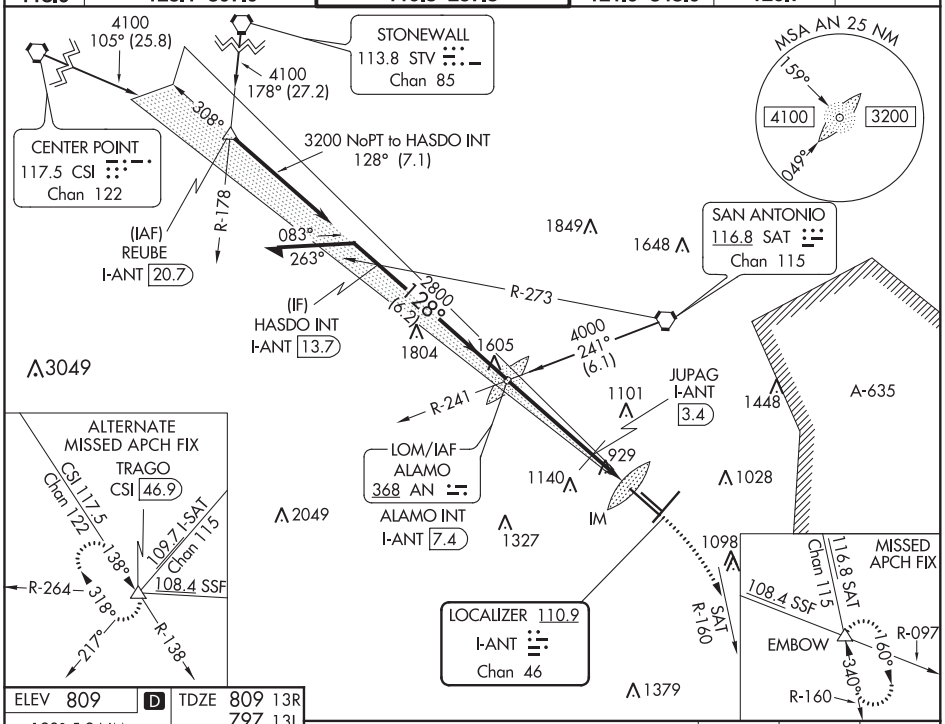
LOC/DME I-ANT	APP CRS	Rwy 13R ldg	8502	Rwy 13L ldg	5519
110.9	128°	TDZE	809	TDZE	797
Chan 46		Apt Elev	809	Apt Elev	809

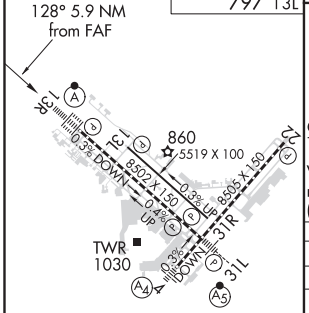
Circling NA west of Rwys 4 and 13R. For inop ALS, increase S-LOC 13R Cats C and D visibility to 1¾SM.

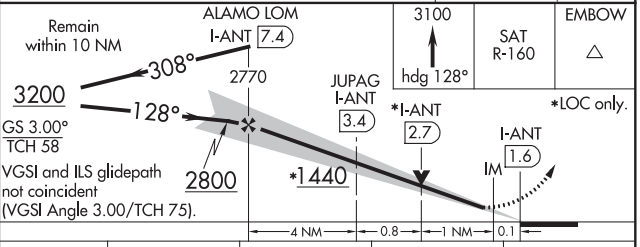
ALSF-2

MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	







CATEGORY	A	B	C	D
S-ILS 13R	1009/18 200 (200-½)			
S-LOC 13R	1440/24 631 (700-½)		1440-1⅜ 631 (700-1⅜)	
SIDESTEP 13L	1600-1 803 (800-1)	1600-1¼ 803 (800-1¼)	1600-2½ 803 (800-2½)	
CIRCLING	1440-1 631 (700-1)		1440-1¾ 631 (700-1¾)	1440-2 631 (700-2)
JUPAG FIX MINIMUMS				
S-LOC 13R	1240/24 431 (500-½)		1240/40 431 (500-¾)	

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

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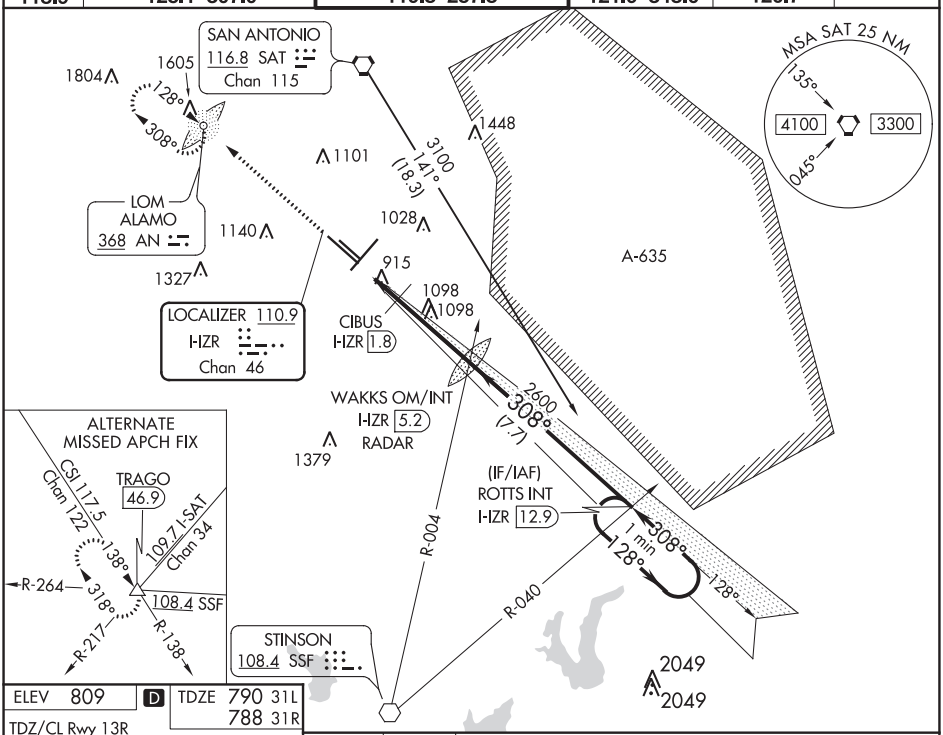
LOC/DME I-IZR	APP CRS	Rwy 31L ldg	8502	Rwy 31R ldg	5519
110.9	308°	TDZE	790	TDZE	788
Chan 46		Apt Elev	809	Apt Elev	809

ILS or LOC RWY 31L
SAN ANTONIO INTL (SAT)

Circling NA west of Rwys 4 and 13R. ADF required. For inop ALS, increase S-LOC 31L Cats C and D visibility to 1⅝ SM. CIBUS FIX MINIMUMS: For inop ALS, increase S-LOC 31L Cats C and D visibility to RVR 6000. #RVR 1800 authorized with the use of FD or AP or HUD to DA.

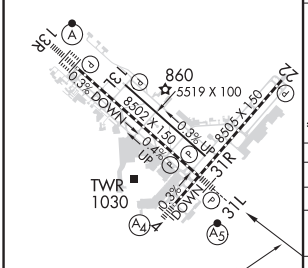
MALSR — MISSED APPROACH: Climb to 3000 direct ALAMO LOM and hold.

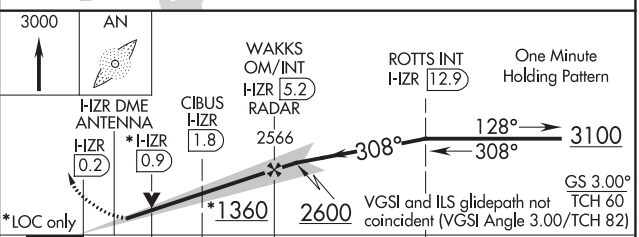
D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



ELEV 809 | D | TDZE 790 31L 788 31R

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R





CATEGORY	A	B	C	D
S-ILS 31L	#990/24 200 (200-½)			
S-LOC 31L	1360/24 570 (600-½)		1360-1¼ 570 (600-1¼)	
SIDESTEP 31R	1360-1 572 (600-1)		1360-1⅝ 572 (600-1⅝)	
CIRCLING	1360-1 551 (600-1)		1360-1¾ 551 (600-1¾)	1380-2 571 (600-2)
CIBUS FIX MINIMUMS				
S-LOC 31L	1200/24 410 (400-½)		1200/40 410 (400-¾)	

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

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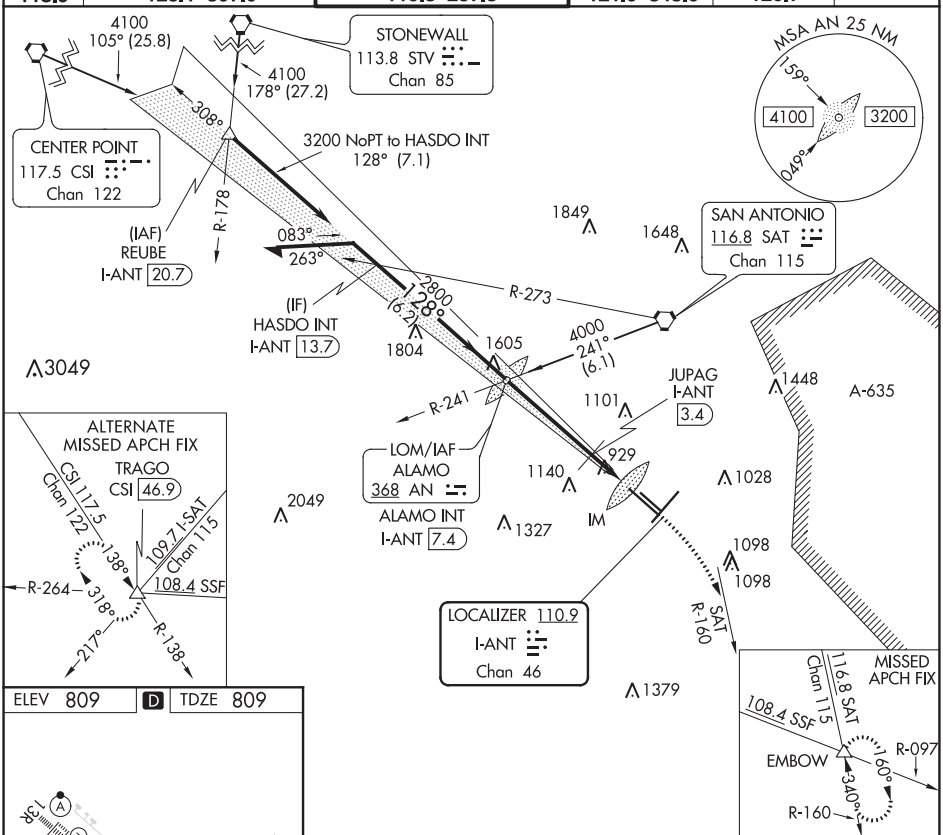
ILS RWY 13R (CAT II)
SAN ANTONIO INTL (SAT)

LOC/DME I-ANT	APP CRS	Rwy 13R ldg	8502
110.9	128°	TDZE	809
Chan 46		Apt Elev	809

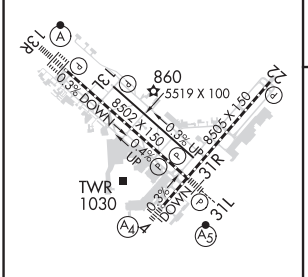
ALSF-2

MISSED APPROACH: Climb to 3100 on heading 128° and SAT VORTAC R-160 to EMBOW INT and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	

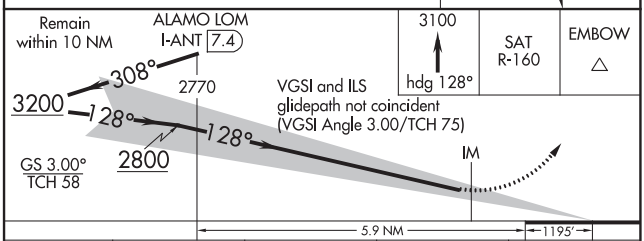


ELEV 809 | D | TDZE 809



TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58



CATEGORY	A	B	C	D
S-ILS 13R	RA 104/12 100 DA 909			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

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APP CRS	Rwy ldg	8505
037°	TDZE	786
	Apt Elev	809

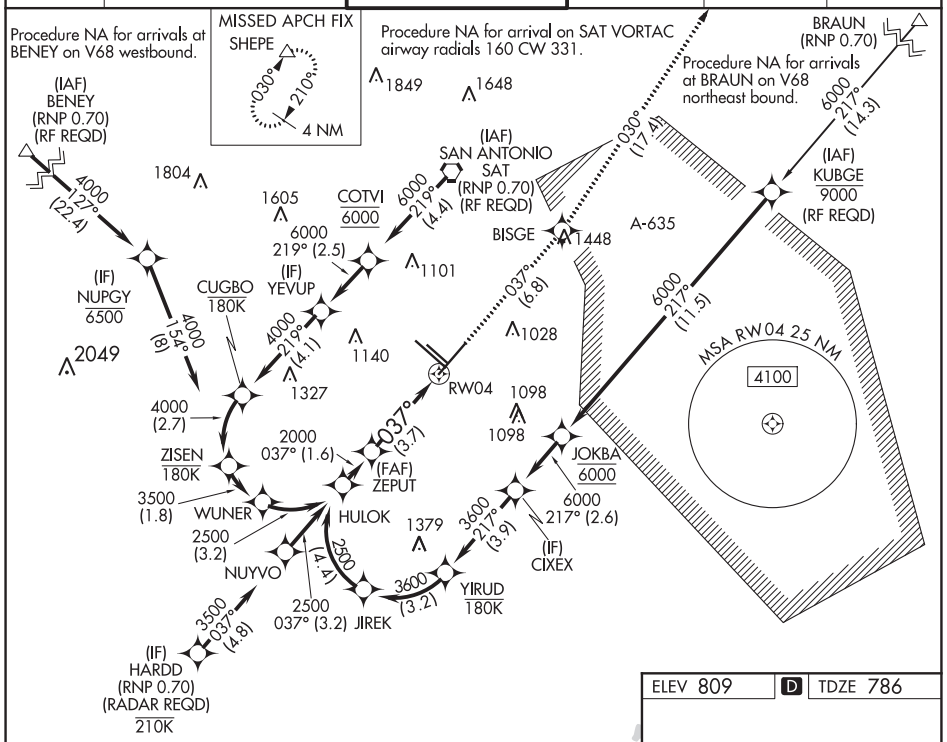
RNAV (RNP) Z RWY 4
SAN ANTONIO INTL (SAT)

For uncompensated Baro-VNAV systems, procedure NA below -4°C (25°F) or above 54°C (130°F). GPS required. For inop ALS, increase RNP 0.15 Cat D visibility to 1¼ SM and RNP 0.30 Cat D visibility to 1¾ SM.

MALS A4

MISSED APPROACH: Climb to 3500 on track 037° to BISGE and track 030° to SHEPE and hold.

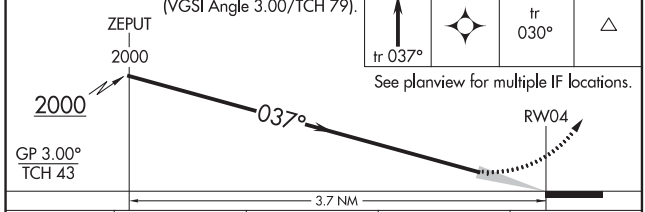
D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 79).

3500	BISGE		SHEPE
tr 037°		tr 030°	

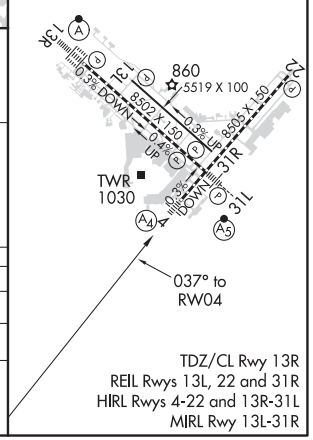
See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.15 DA	1171/50 385 (400-1)			
RNP 0.30 DA	1284-1½ 498 (500-1½)			

AUTHORIZATION REQUIRED

ELEV 809 D TDZE 786



TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

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RNAV (RNP) Z RWY 13R

SAN ANTONIO INTL (SAT)

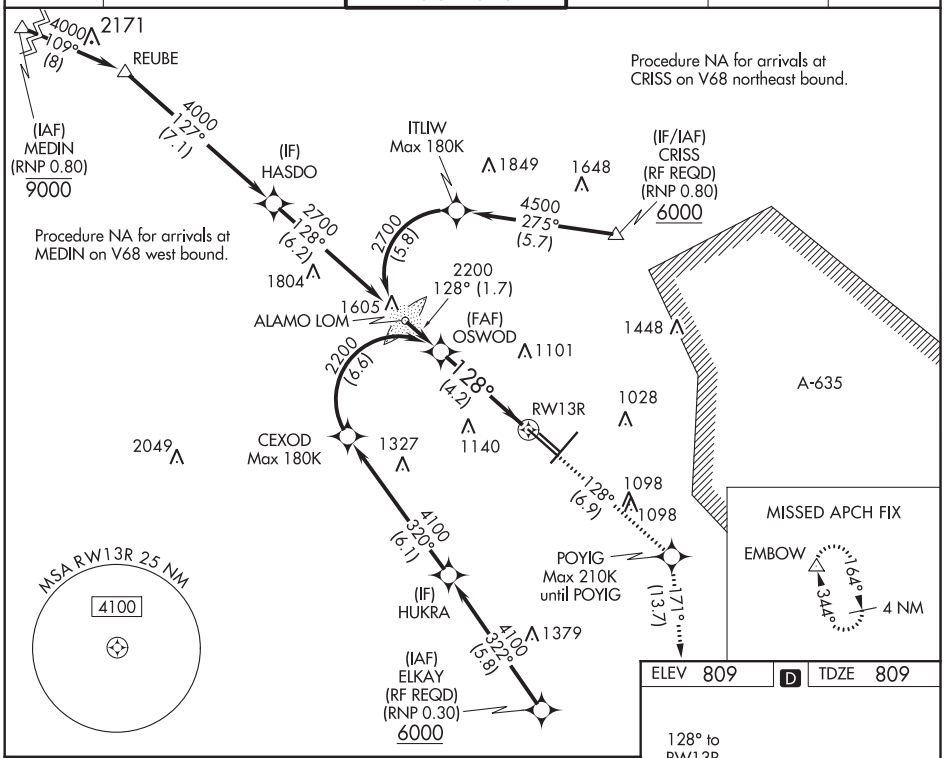
APP CRS	Rwy ldg	8502
128°	TDZE	809
	Apt Elev	809

For uncompensated Baro-VNAV systems, procedure NA below -4°C (25°F) or above 54°C (130°F). GPS required.

ALSF-2

MISSED APPROACH: Climb to 3100 on track 128° to POYIG and track 171° to EMBOW and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	

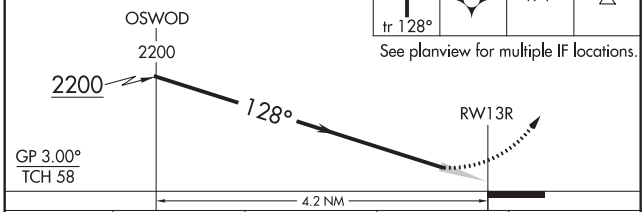


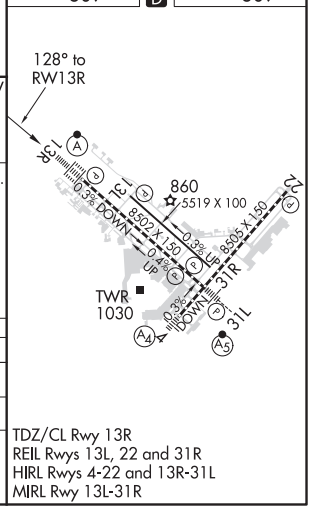
ELEV	809	D	TDZE	809

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 75).

3100	POYIG	tr 171°	EMBOW
tr 128°			

See planview for multiple IF locations.





CATEGORY	A	B	C	D
RNP 0.15 DA	1150/30 341 (400-⅝)			
RNP 0.30 DA	1303/60 494 (500-1¼)			

AUTHORIZATION REQUIRED

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

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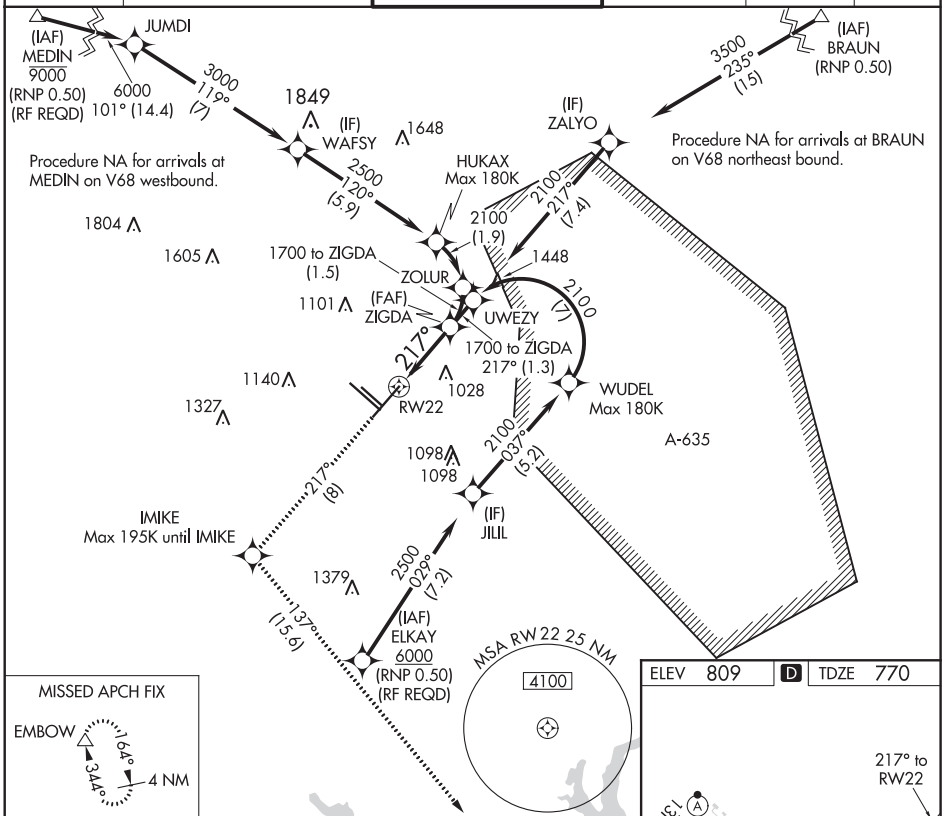
APP CRS	Rwy ldg	8505
217°	TDZE	770
	Apt Elev	809

RNAV (RNP) Z RWY 22
SAN ANTONIO INTL (SAT)

For uncompensated Baro-VNAV systems, procedure NA below -2°C (29°F) or above 54°C (130°F). GPS required.

MISSED APPROACH: Climb to 3100 on track 217° to IMIKE and track 137° to EMBOW and hold.

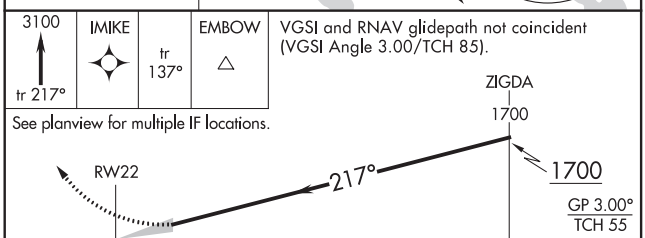
D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



3100	IMIKE	tr 137°	EMBOW
tr 217°			

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 85).

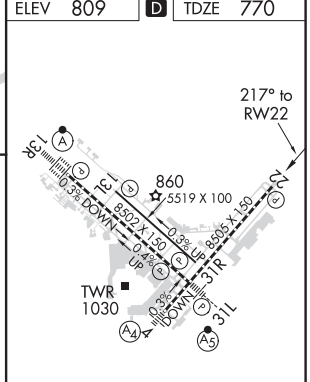
See planview for multiple IF locations.



CATEGORY	A	B	C	D
RNP 0.15 DA	1120-1⅛		350 (400-1⅛)	
RNP 0.30 DA	1320-1⅞		550 (600-1⅞)	

AUTHORIZATION REQUIRED

ELEV 809 | D | TDZE 770



TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

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APP CRS	Rwy ldg	8502
308°	TDZE	790
	Apt Elev	809

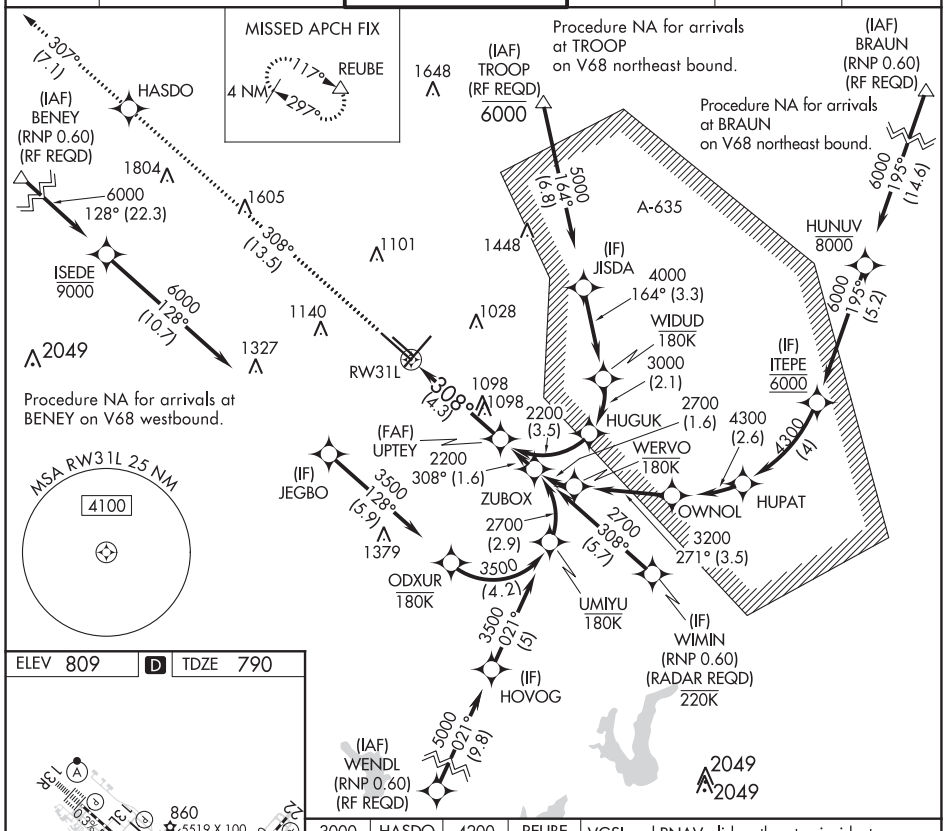
RNAV (RNP) Z RWY 31L
SAN ANTONIO INTL (SAT)

For uncompensated Baro-VNAV systems, procedure NA below -4°C (25°F) or above 54°C (130°F). GPS required.

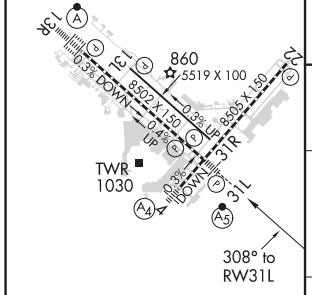
MALSR

MISSED APPROACH: Climb to 3000 on track 308° to HASDO then climb to 4200 on track 307° to REUBE and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	

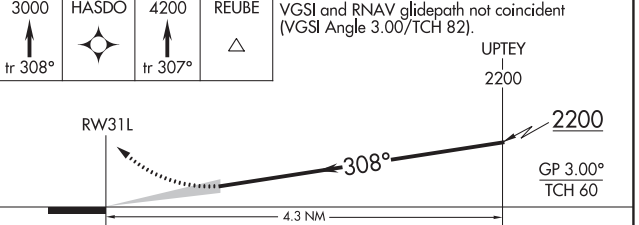


ELEV 809 | D | TDZE 790



3000	HASDO	4200	REUBE
tr 308°		tr 307°	

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 82).



CATEGORY	A	B	C	D
RNP 0.30 DA	1232/50	442 (500-1)		

TDZ/CL Rwy 13R
REIL Rwys 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

AUTHORIZATION REQUIRED

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WAAS CH 77613 W04A	APP CRS 037°	Rwy ldg 8505 TDZE 786 Apt Elev 809

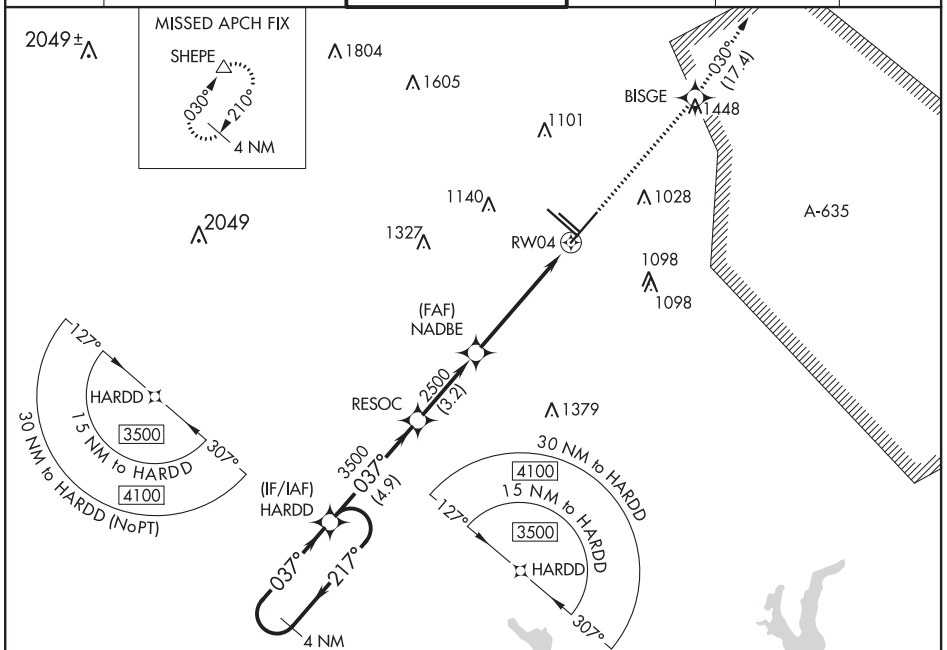
RNAV (GPS) Y RWY 4
SAN ANTONIO INTL (SAT)

Inop table does not apply to LPV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA. For inop ALS, increase LNAV/VNAV all Cats and LNAV Cats C and D visibility to 1⅜.

MALS

MISSED APPROACH: Climb to 3500 direct BISGE and track 030° to SHEPE and hold.

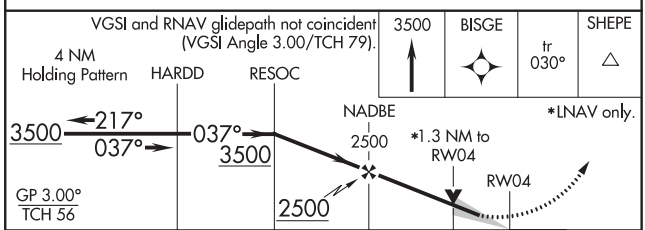
D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



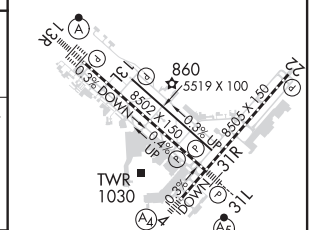
ELEV 809 D TDZE 786

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 79).

3500	BISGE	tr 030°	SHEPE



CATEGORY	A	B	C	D
LPV DA	986/40 200 (200-¾)			
LNAV/VNAV DA	1201/60 415 (400-1¼)			
LNAV MDA	1280/40 494 (500-¾)		1280/60 494 (500-1¼)	
CIRCLING	1300-1 491 (500-1)		1320-1½ 511 (600-1½)	1380-2 571 (600-2)



TDZ/CL Rwy 13R
REIL Rwys 12L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

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RNAV (GPS) Y RWY 13R
SAN ANTONIO INTL (SAT)

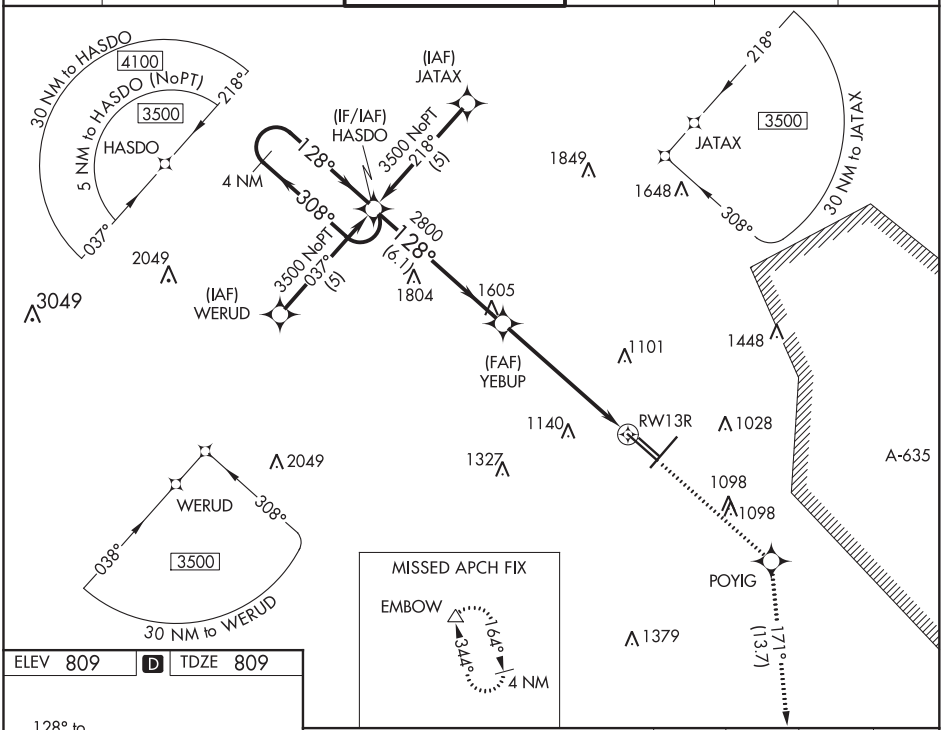
WAAS CH 82409 W13A	APP CRS 128°	Rwy ldg 8502 TDZE 809 Apt Elev 809

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA.
For inop ALS, increase LPV all Cats visibility to RVR 4500, LNAV/VNAV all Cats visibility to 1¾ SM, and LNAV Cats C and D visibility to 2½ SM.

ALSF-2

MISSED APPROACH: Climb to 3100 direct POYIG and track 171° to EMBOW and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



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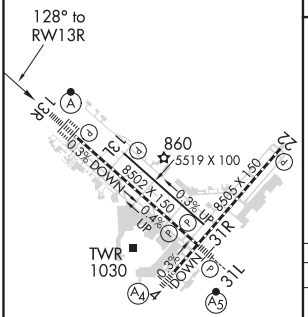
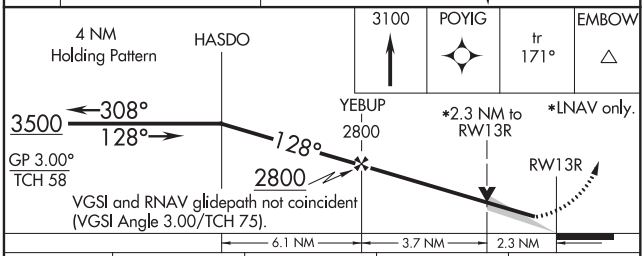
ELEV 809 | D | TDZE 809





CATEGORY	A	B	C	D
LPV DA	1107/24 298 (300-½)			
LNAV/VNAV DA	1340-1⅜ 531 (600-1⅜)			
LNAV MDA	1620/24 811 (900-½)	1620/40 811 (900-¾)	1620-1⅞ 811 (900-1⅞)	
CIRCLING	1620-1¼ 811 (900-1¼)		1620-2½ 811 (900-2½)	1620-2¾ 811 (900-2¾)

TDZ/CL Rwy 13R
REIL Rwys 13L, 21 and 31R
MIRL Rwy 13L-31R
HIRL Rwys 3-21 and 13R-31L

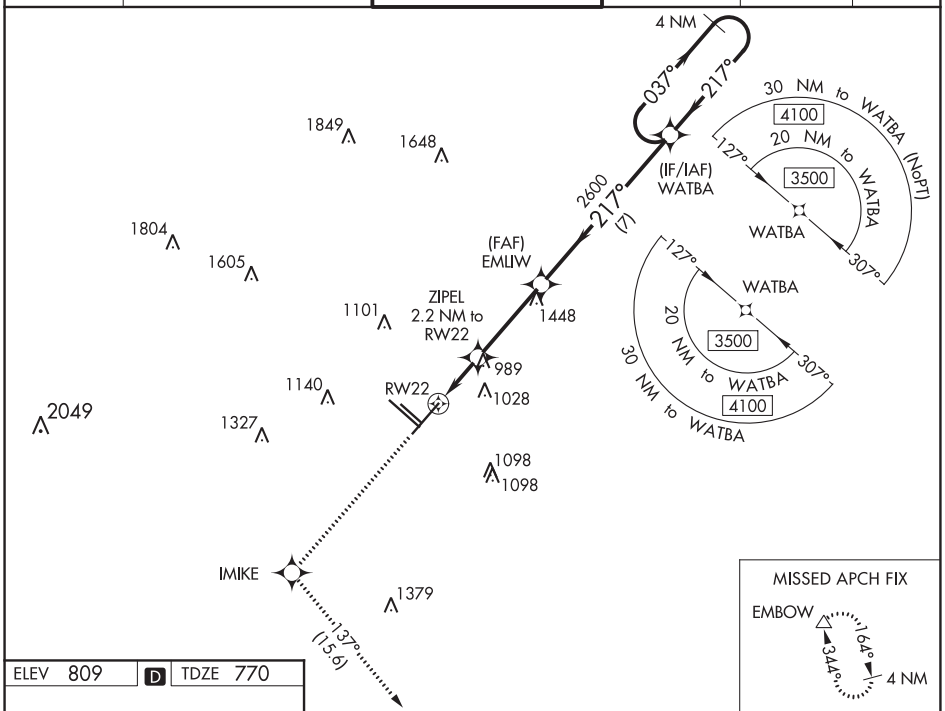
WAAS CH 69430 W22A	APP CRS 217°	Rwy ldg 8505 TDZE 770 Apt Elev 809

RNAV (GPS) Y RWY 22
SAN ANTONIO INTL (SAT)

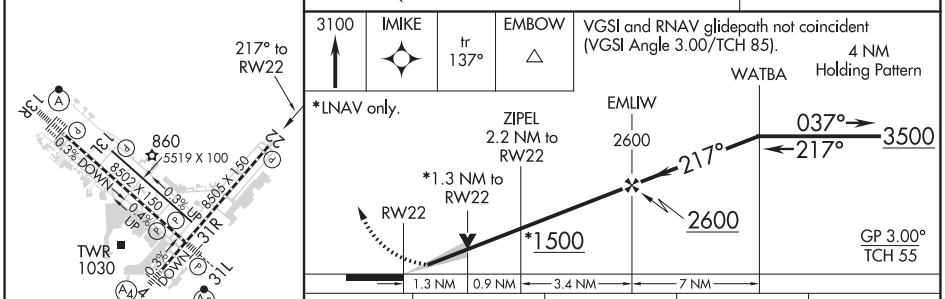
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -4°C (25°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3100 direct IMIKE and track 137° to EMBOW and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



ELEV 809 | D | TDZE 770



CATEGORY	A	B	C	D
LPV DA	970-¾ 200 (200-¾)			
LNAV/VNAV DA	1225-1⅝ 455 (500-1⅝)			
LNAV MDA	1240-1 470 (500-1)		1240-1⅜ 470 (500-1⅜)	
CIRCLING	1300-1 491 (500-1)		1320-1½ 511 (600-1½)	1380-2 571 (600-2)

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
HIRL Rwys 4-22 and 13R-31L
MIRL Rwy 13L-31R

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RNAV (GPS) Y RWY 31L
SAN ANTONIO INTL (SAT)

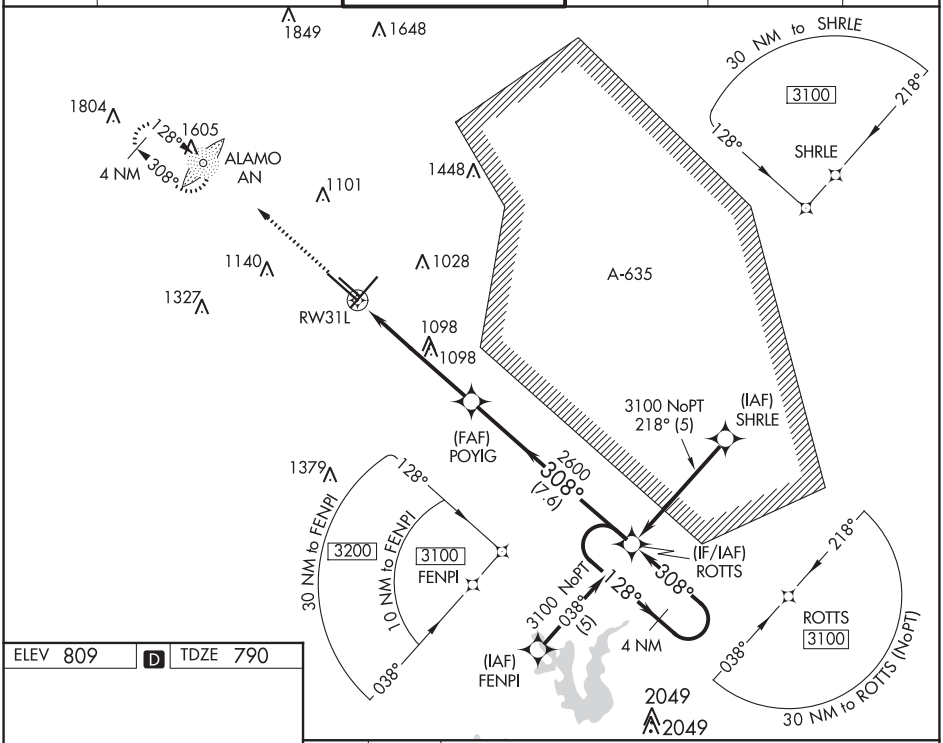
WAAS CH 61209 W31A	APP CRS 308°	Rwy ldg 8502 TDZE 790 Apt Elev 809

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -2°C (29°F) or above 54°C (130°F). Circling NA west of Rwys 4 and 13R. DME/DME RNP-0.3 NA. For inop ALS, increase LPV all Cats visibility to 1⅜ SM, LNAV/VNAV all Cats visibility to 1½ SM, and LNAV Cats C and D visibility to 1⅝ SM .

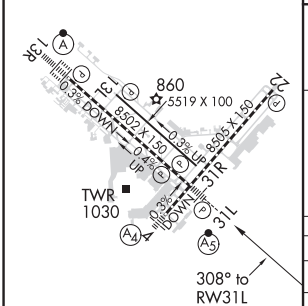
MALSR A5

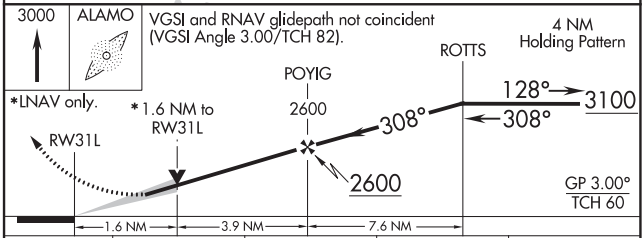
MISSED APPROACH: Climb to 3000 direct ALAMO LOM and hold.

D-ATIS	SAN ANTONIO APP CON	SAN ANTONIO TOWER	GND CON	CLNC DEL	CPDLC
118.9	125.1 307.0	119.8 257.8	121.9 348.6	126.7	



ELEV 809 | D | TDZE 790





CATEGORY		A	B	C	D
LPV	DA	1207/50 417 (400-1)			
LNAV/VNAV	DA	1246/60 456 (500-1¼)			
LNAV	MDA	1360/24 570 (600-½)		1360-1¼ 570 (600-1¼)	
CIRCLING		1360-1 551 (600-1)		1360-1¾ 551 (600-1¾)	1380-2 571 (600-2)

TDZ/CL Rwy 13R
REIL Rwys 13L, 22 and 31R
MIRL Rwy 13L-31R
HIRL Rwys 4-22 and 13R-31L

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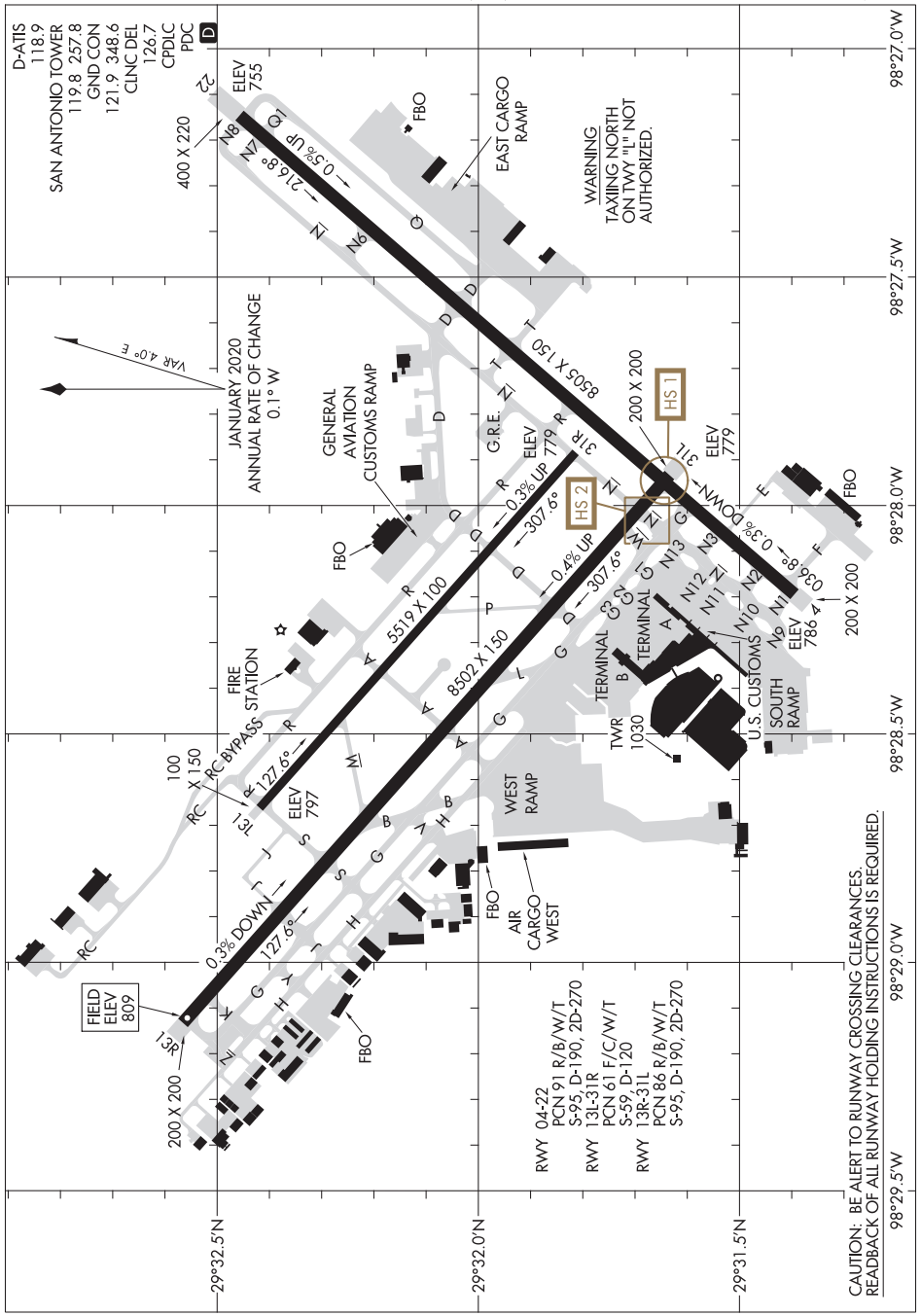


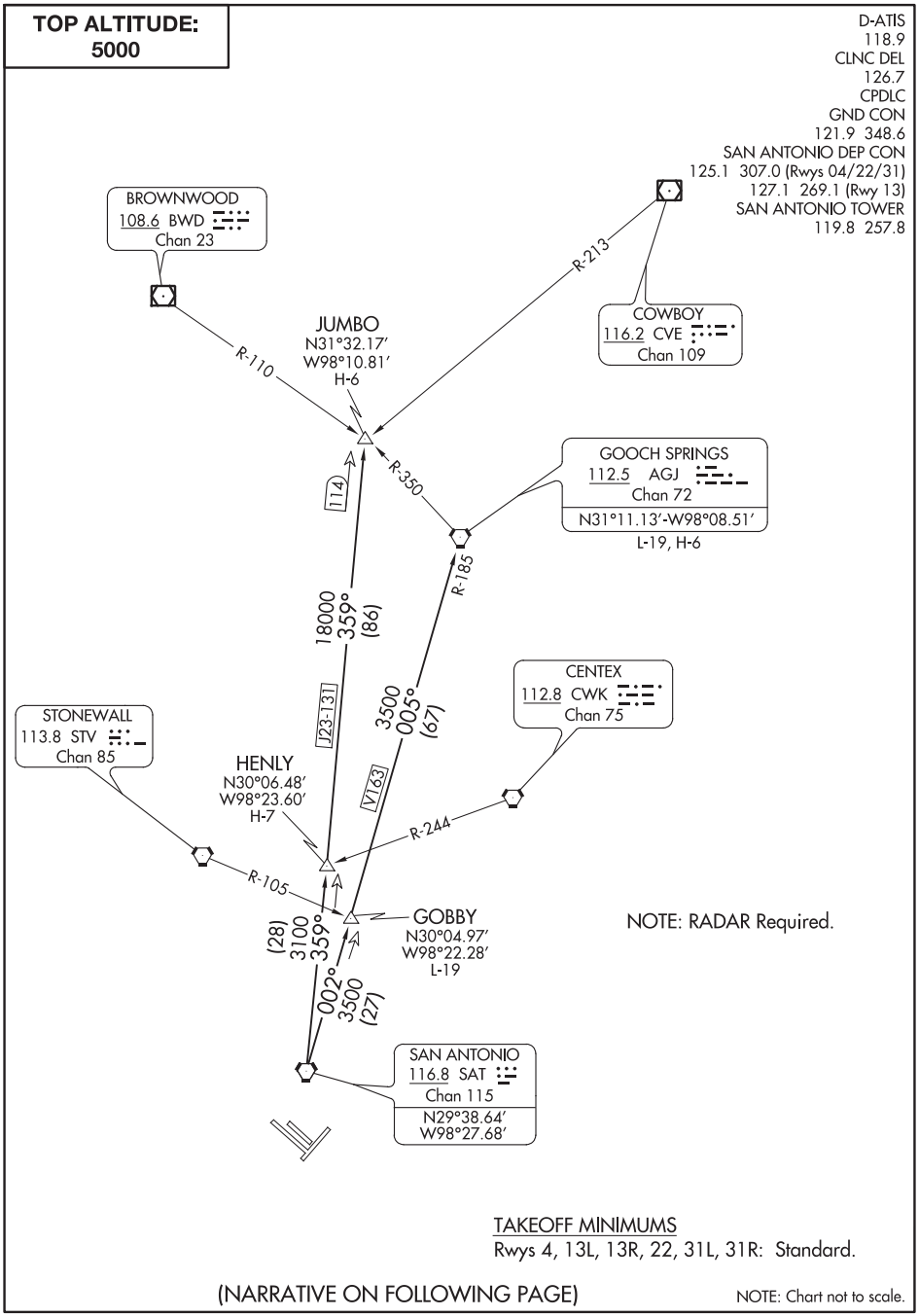
SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

(ALAMO3.ALAMO) 20086 AL-369 (FAA)

ALAMO THREE DEPARTURE

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS



TAKEOFF MINIMUMS
Rwys 4, 13L, 13R, 22, 31L, 31R: Standard.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 4, 13L 13R, 22, 31L, 31R: Climb on assigned heading for RADAR vectors to SAT VORTAC. Maintain 5000, thence. . .

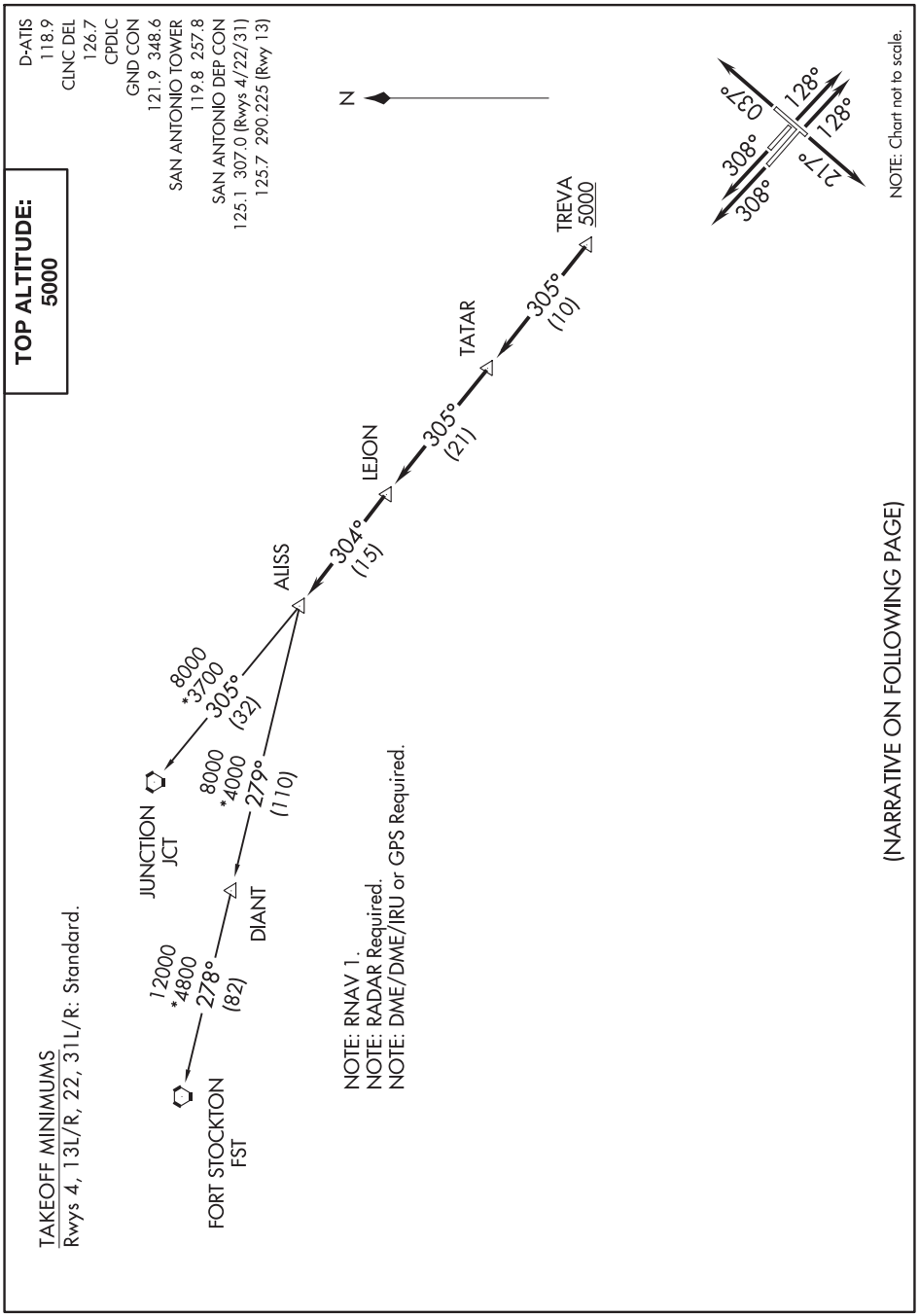
. . . on transition/route. Expect filed altitude 10 minutes after departure.

GOBBY TRANSITION (ALAMO3.GOBBY): From over SAT VORTAC on SAT R-002 to GOBBY.
GOOCH SPRINGS TRANSITION (ALAMO3.AGJ): From over SAT VORTAC on SAT R-002 to GOBBY, then on SAT R-002 and AGJ R-185 to AGJ VORTAC.
HENLY TRANSITION (ALAMO3.HENLY): From over SAT VORTAC on SAT R-359 to HENLY.
JUMBO TRANSITION (ALAMO3.JUMBO): From over SAT VORTAC on SAT R-359 to JUMBO.

(ALISS5.ALISS) 18032 AL-369 (FAA) SAN ANTONIO INTL (SAT)

ALISS FIVE DEPARTURE (RNAV)

SAN ANTONIO, TEXAS



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ALISS FIVE DEPARTURE (RNAV)

SAN ANTONIO, TEXAS

(ALISS5.ALISS) 02MAR17 SAN ANTONIO INTL (SAT)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 4: Climb heading 037° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWYS 13L/R: Climb heading 128° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWY 22: Climb heading 217° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWYS 31L/R: Climb heading 308° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

... on track 305° to TATAR, then on track 305° to LEJON, then on track 304° to ALISS, then on (transition). Maintain 5000, expect filed altitude 10 minutes after departure.

DIANT TRANSITION (ALISS5.DIANT)
FORT STOCKTON TRANSITION (ALISS5.FST)
JUNCTION TRANSITION (ALISS5.JCT)

SC-3, 25 FEB 2021 to 22 APR 2021

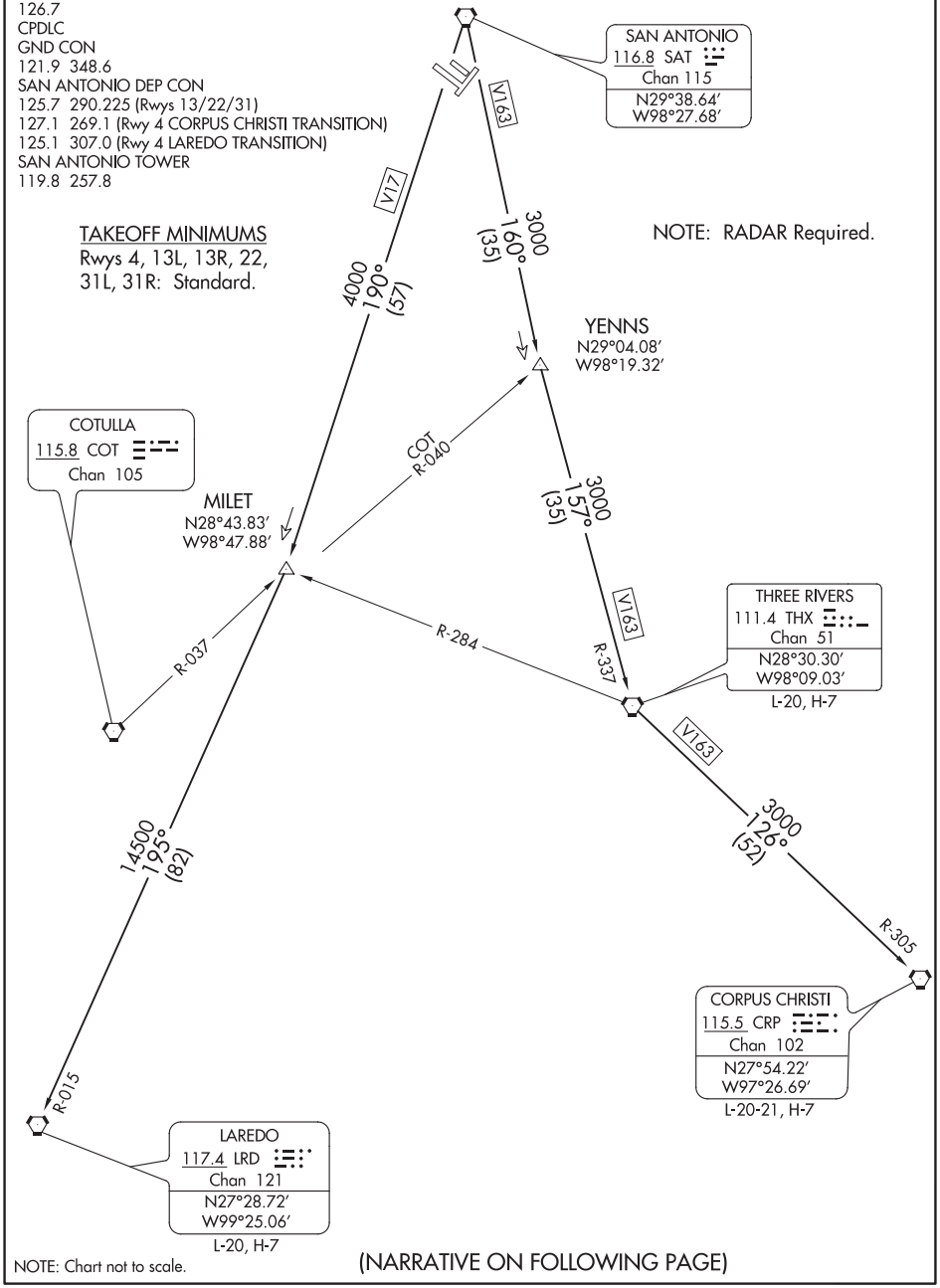
BOWIE SEVEN DEPARTURE

TOP ALTITUDE: 5000

D-ATIS
118.9
CLNC DEL
126.7
CPDLC
GND CON
121.9 348.6
SAN ANTONIO DEP CON
125.7 290.225 (Rwys 13/22/31)
127.1 269.1 (Rwy 4 CORPUS CHRISTI TRANSITION)
125.1 307.0 (Rwy 4 LAREDO TRANSITION)
SAN ANTONIO TOWER
119.8 257.8

TAKEOFF MINIMUMS
Rwys 4, 13L, 13R, 22, 31L, 31R: Standard.

NOTE: RADAR Required.



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L 13R, 22, 31L, 31R: Climb on assigned heading for RADAR vectors to SAT VORTAC. Maintain 5000, thence. . .

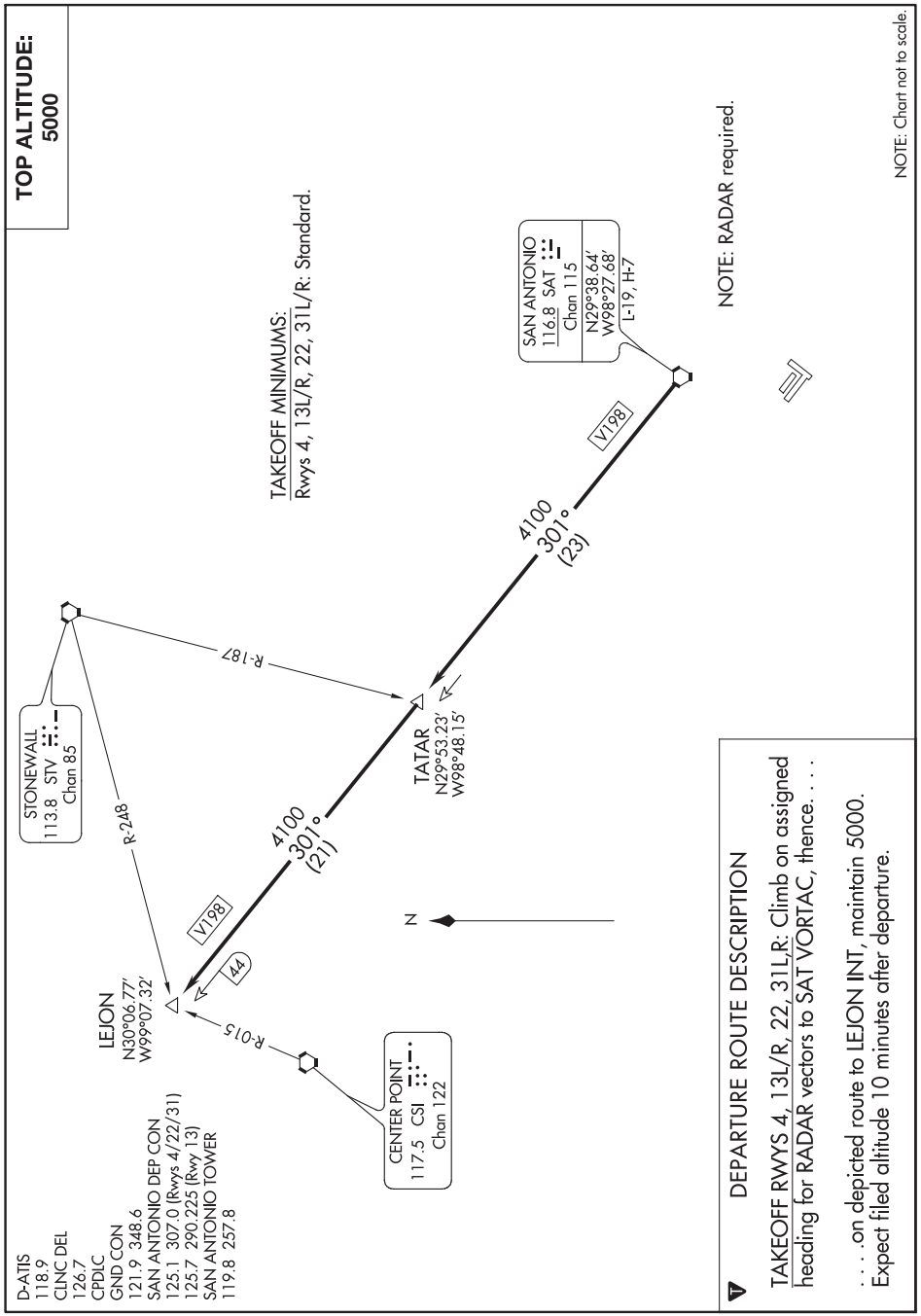
. . . on transition/route. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (BOWIE7.CRP): From over SAT VORTAC on SAT R-160 to YENNS INT/SAT 35 DME, then on THX R-337 to THX VORTAC, then on THX R-126 and CRP R-305 to CRP VORTAC.

LAREDO TRANSITION (BOWIE7.LRD): From over SAT VORTAC on SAT R-190 to MILET INT/SAT 57 DME, then on LRD R-015 to LRD VORTAC.

SC-3, 25 FEB 2021 to 22 APR 2021

LEJON FOUR DEPARTURE



MILET FOUR DEPARTURE (RNAV)

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS

D-ATIS 118.9
CLNC DEL 126.7
CPDLC
GND CON
121.9 348.6
SAN ANTONIO DEP CON
125.1 307.0 (Rwy 04)
125.7 290.225 (Rwys 13/22/31)
SAN ANTONIO TOWER
119.8 257.8

TOP ALTITUDE: 5000

RAYBN
5000

5000
194°
(25)

MILET

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft SAT, THX, and COT DME's must be operational.

TAKEOFF MINIMUMS
Rwys 4, 13L, 13R, 22, 31L, 31R: Standard.

5000
200°
(82)

LAREDO
LRD

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 4, 13L, 13R, 22, 31L, 31R:
Climb on assigned heading for RADAR vectors to RAYBN, thence. . . .

. . . .On depicted route to LRD VORTAC, maintain 5000. Expect filed altitude 10 minutes after departure.

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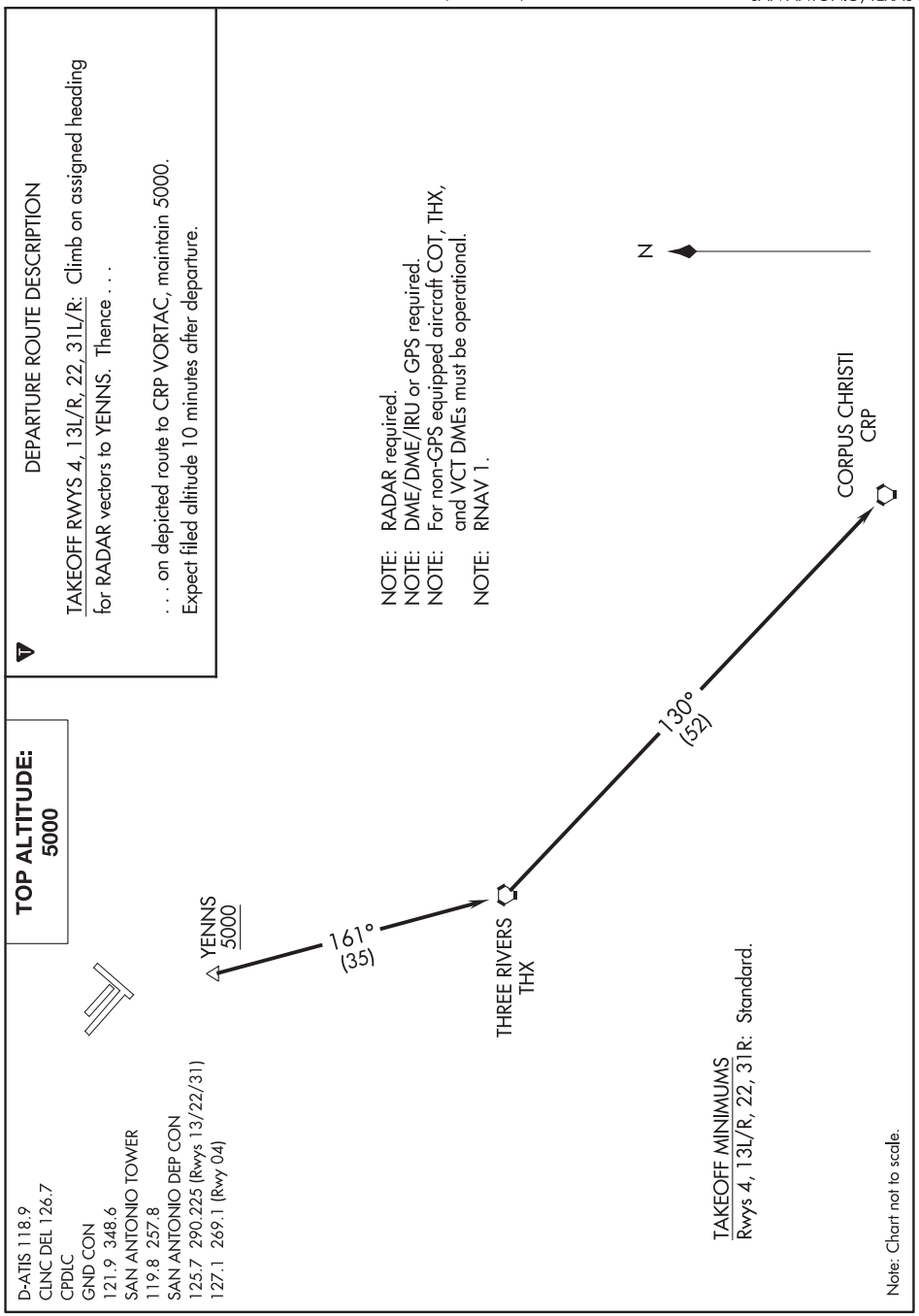
SC-3, 25 FEB 2021 to 22 APR 2021

(THX4.THX) 18032 AL-369 (FAA)

THREE RIVERS FOUR DEPARTURE (RNAV)

SAN ANTONIO INTL (SAT)
SAN ANTONIO, TEXAS



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RNAV (GPS) RWY 32
STINSON MUNI (SSF)

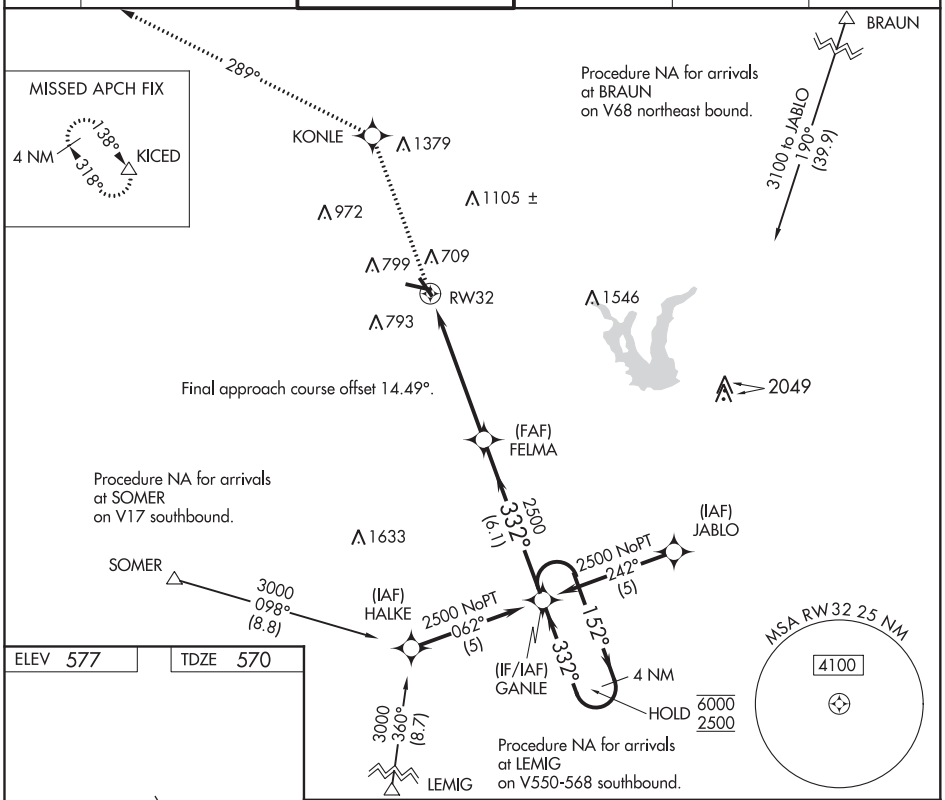
APP CRS	Rwy ldg	3756
332°	TDZE	570
	Apt Elev	577

RNP APCH.

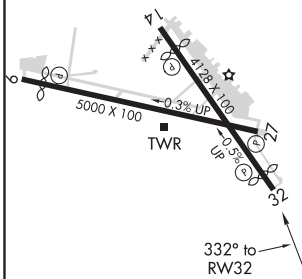
Rwy 32 helicopter visibility reduction below 1 SM NA.
Straight-in Rwy 32 NA at night, Circling Rwy 9, 32 NA at night.

MISSED APPROACH: Climb to 4100 direct KONLE and on track 289° to KICED and hold.

ATIS	SAN ANTONIO APP CON	STINSON TOWER ★	GND CON	CLNC DEL	UNICOM
128.8	125.7 290.225	118.2 (CTAF) 379.9	121.7 379.9	121.7	122.95

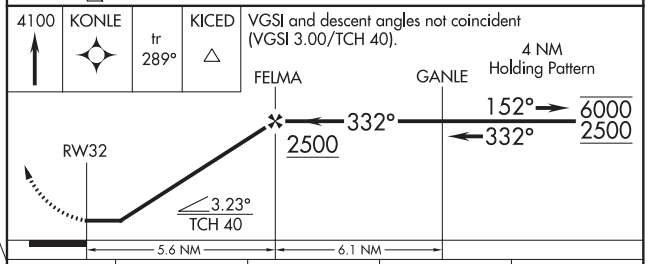


ELEV 577 TDZE 570



4100	KONLE	tr 289°	KICED

VGSI and descent angles not coincident (VGSI 3.00/TCH 40).



CATEGORY	A	B	C	D
LNAV MDA	1020-1 450 (500-1)		1020-1⅜ 450 (500-1⅜)	NA
CIRCLING	1040-1 463 (500-1)	1100-1 523 (600-1)	1100-1½ 523 (600-1½)	NA

REIL Rwys 9, 14, 27 and 32
MIRL Rwys 9-27 and 14-32

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SC-3, 25 FEB 2021 to 22 APR 2021

SAN ANTONIO, TEXAS

AL-372 (FAA)

20086

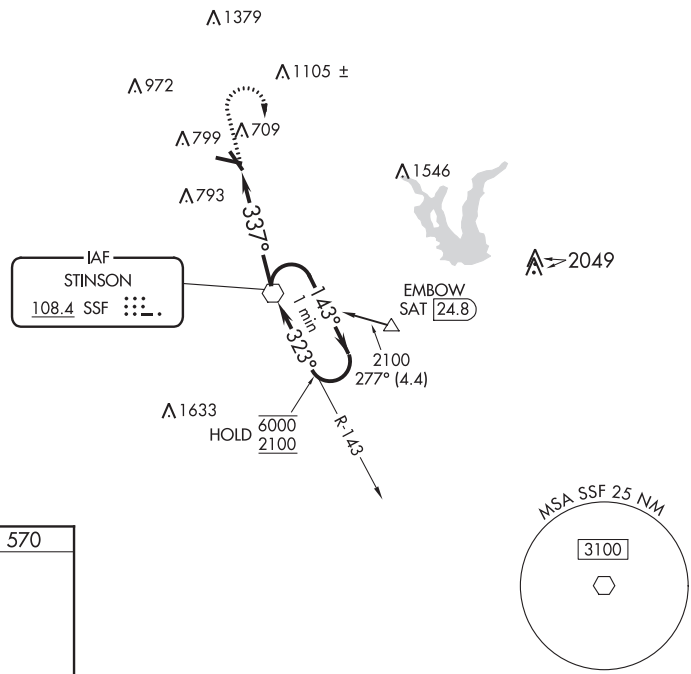
VOR RWY 32
STINSON MUNI (SSF)

VOR SSF	APP CRS	Rwy ldg	3756
108.4	337°	TDZE	570
		Apt Elev	577

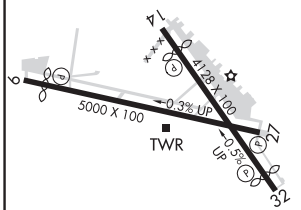
Rwy 32 helicopter visibility reduction below 1 SM NA.
Straight-in Rwy 32 NA at night, Circling Rwy 9, 32 NA at night.

MISSED APPROACH: Climb to 1400 then climbing right turn to 2500 direct SSF VOR and hold.

ATIS	SAN ANTONIO APP CON	STINSON TOWER*	GND CON	CLNC DEL	UNICOM
128.8	125.7 290.225	118.2 (CTAF) 379.9	121.7 379.9	121.7	122.95



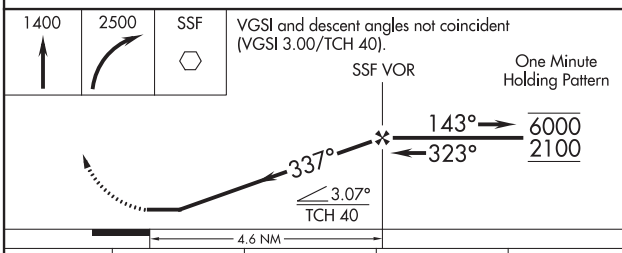
ELEV 577 | TDZE 570



337° 4.6 NM from FAF

REIL Rwys 9, 14, 27 and 32
MIRL Rwys 9-27 and 14-32

FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32



CATEGORY	A	B	C	D
S-32	1020-1 450 (500-1)		1020-1⅜ 450 (500-1⅜)	NA
CIRCLING	1040-1 463 (500-1)	1100-1 523 (600-1)	1100-1½ 523 (600-1½)	NA

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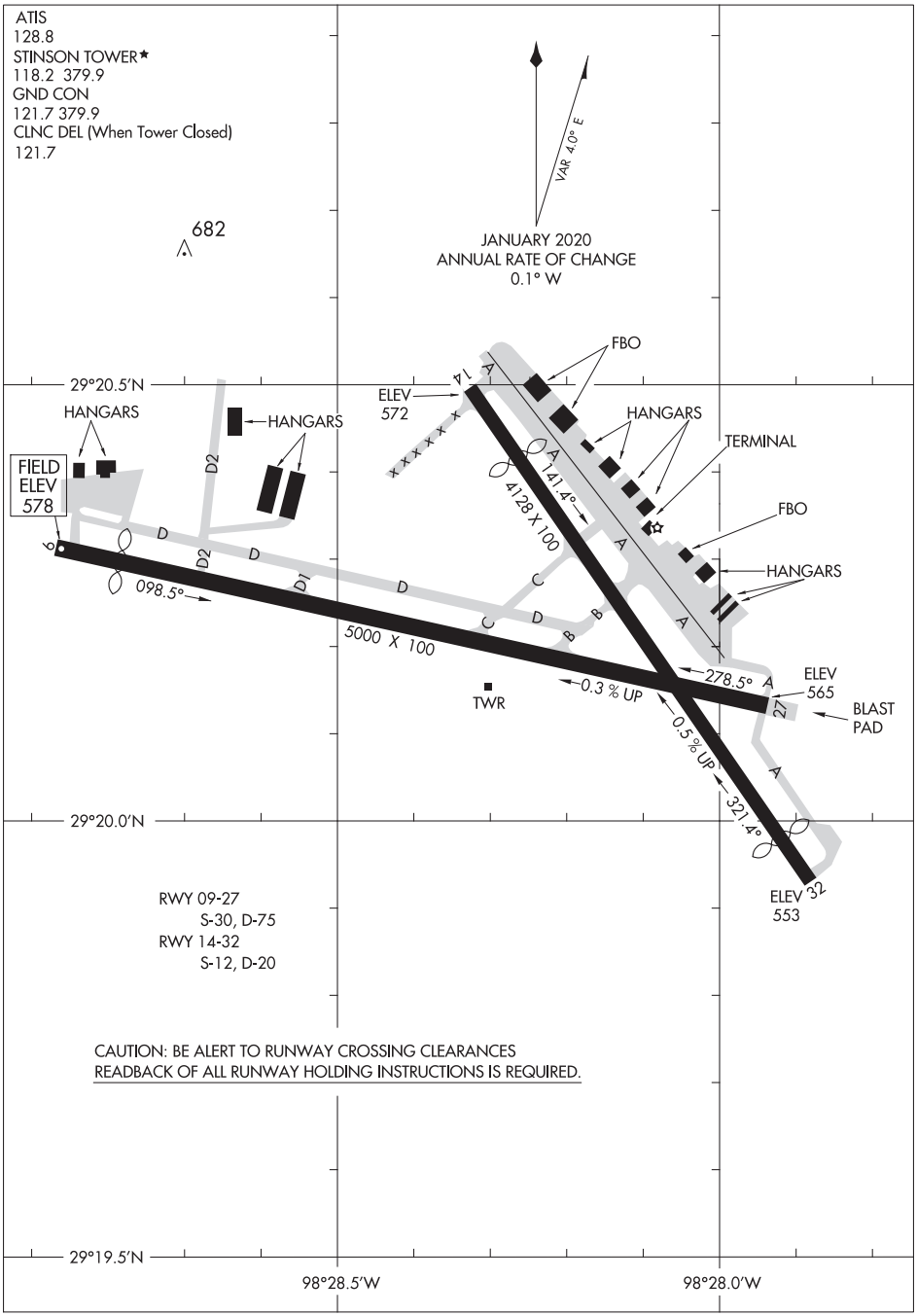
SC-3, 25 FEB 2021 to 22 APR 2021


ATIS
128.8
STINSON TOWER★
118.2 379.9
GND CON
121.7 379.9
CLNC DEL (When Tower Closed)
121.7
682
VAR 4.0° E
JANUARY 2020
ANNUAL RATE OF CHANGE
0.1° W
29°20.5'N
29°20.0'N
29°19.5'N
98°28.5'W
98°28.0'W
HANGARS
HANGARS
HANGARS
HANGARS
FIELD
ELEV
578
ELEV
572
FBO
FBO
TERMINAL
4128 X 100
141.4°
098.5°
5000 X 100
278.5°
0.3 % UP
0.5 % UP
321.4°
TWR
ELEV
565
BLAST
PAD
ELEV
553
RWY 09-27
S-30, D-75
RWY 14-32
S-12, D-20
CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

(ALAMO3.ALAMO) 20086

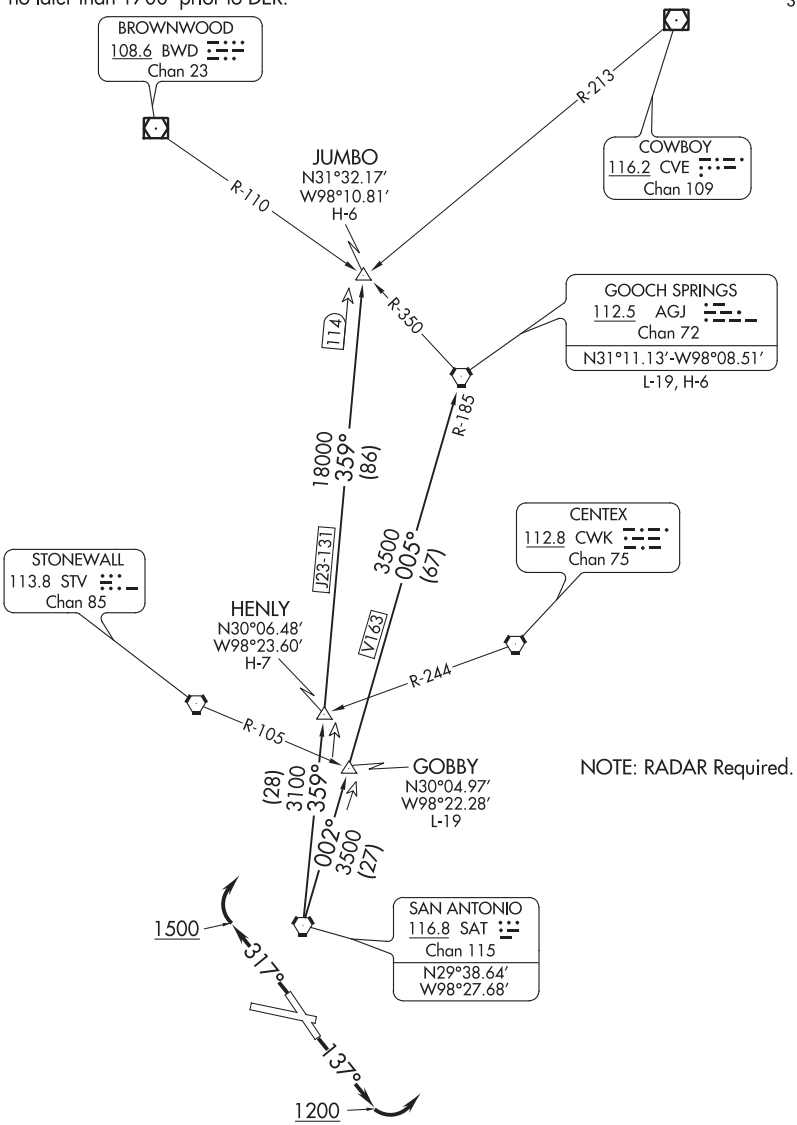
AL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ALAMO THREE DEPARTURE

TAKEOFF MINIMUMS:
Rwy 14, 32: Standard.
Rwy 9: Standard with minimum climb of 225′ per NM to 1900.
Rwy 27: 300-1¾ or standard with minimum climb of 221′ per NM to 900, or alternatively, with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1700′ prior to DER.

ATIS
128.8
CLNC DEL
121.7
GND CON
121.7 379.9
SAN ANTONIO DEP CON
125.7 290.225
STINSON TOWER★
118.2 379.9



NOTE: RADAR Required.

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAYS 9, 27: Climb on assigned heading and altitude for RADAR vectors to SAT VORTAC, thence...
TAKEOFF RUNWAY 14: Climb on heading 137° to 1200 before turning left for RADAR vectors to SAT VORTAC, thence...
TAKEOFF RUNWAR 32: Climb on heading 317° to 1500 before turning right for RADAR vectors to SAT VORTAC, thence...

...on transition/route. Expect filed altitude 10 minutes after departure.

GOBBY TRANSITION (ALAMO3.GOBBY): From over SAT VORTAC on SAT R-002 to GOBBY.
GOOCH SPRINGS TRANSITION (ALAMO3.AGJ): From over SAT VORTAC on SAT R-002 to GOBBY, then on SAT R-002 and AGJ R-185 to AGJ VORTAC.
HENLY TRANSITION (ALAMO3.HENLY): From over SAT VORTAC on SAT R-359 to HENLY.
JUMBO TRANSITION (ALAMO3.JUMBO): From over SAT VORTAC on SAT R-359 to JUMBO.

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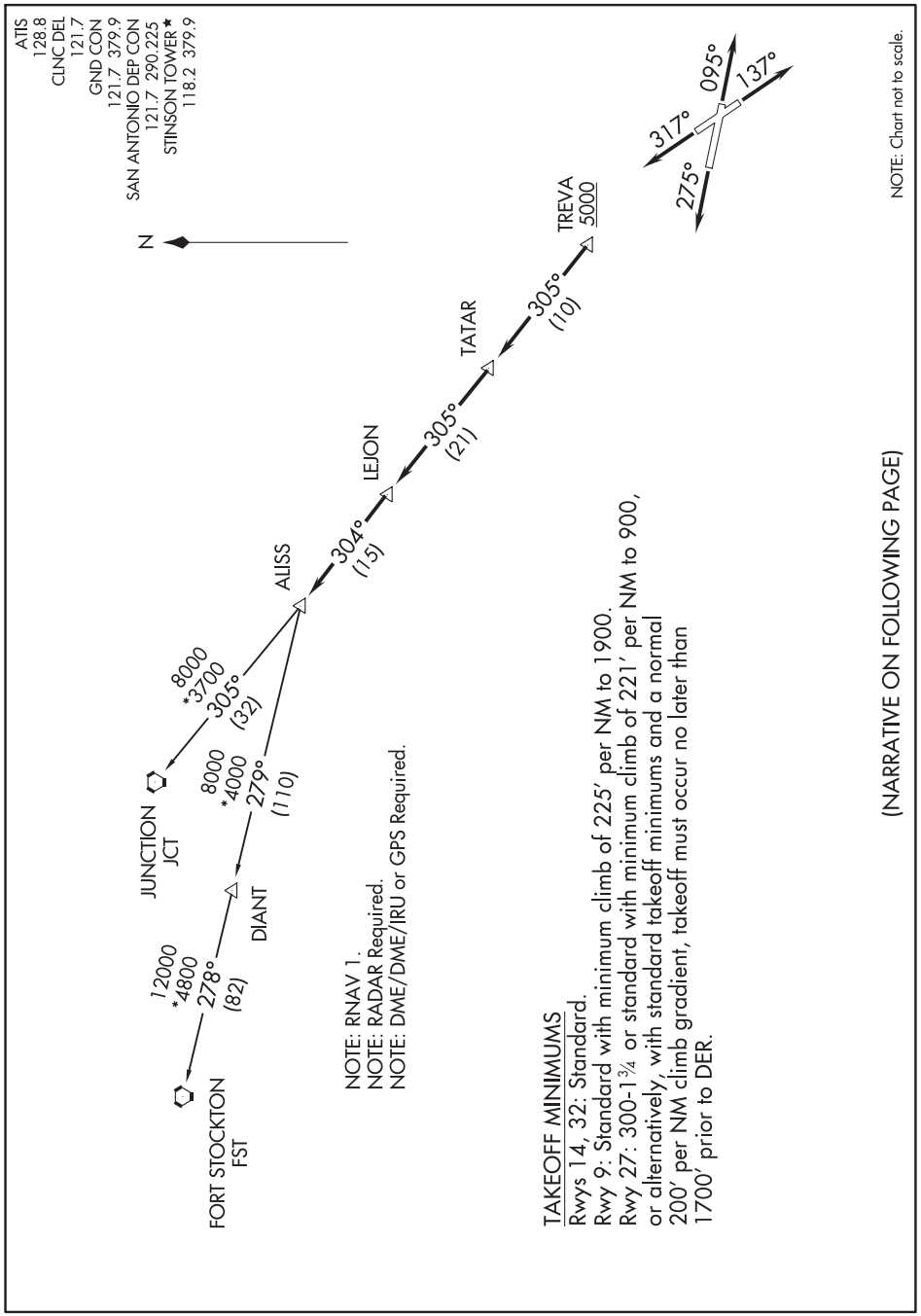
(ALISS5.ALISS) 18032

AL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ALISS FIVE DEPARTURE (RNAV)



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ALISS FIVE DEPARTURE (RNAV)

(ALISS5.ALISS) 02MAR17

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)

ALISS FIVE DEPARTURE (RNAV)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 9: Climb heading 095° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWY 14: Climb heading 137° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWY 27: Climb heading 275° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .
TAKEOFF RWY 32: Climb heading 317° or as assigned by ATC, expect RADAR vectors to TREVA, thence . . .

... on track 305° to TATAR, then on track 305° to LEJON, then on track 304° to ALISS, then on (transition). Maintain 5000, Expect filed altitude 10 minutes after departure.

DIANT TRANSITION (ALISS5.DIANT)
FORT STOCKTON TRANSITION (ALISS5.FST)
JUNCTION TRANSITION (ALISS5.JCT)

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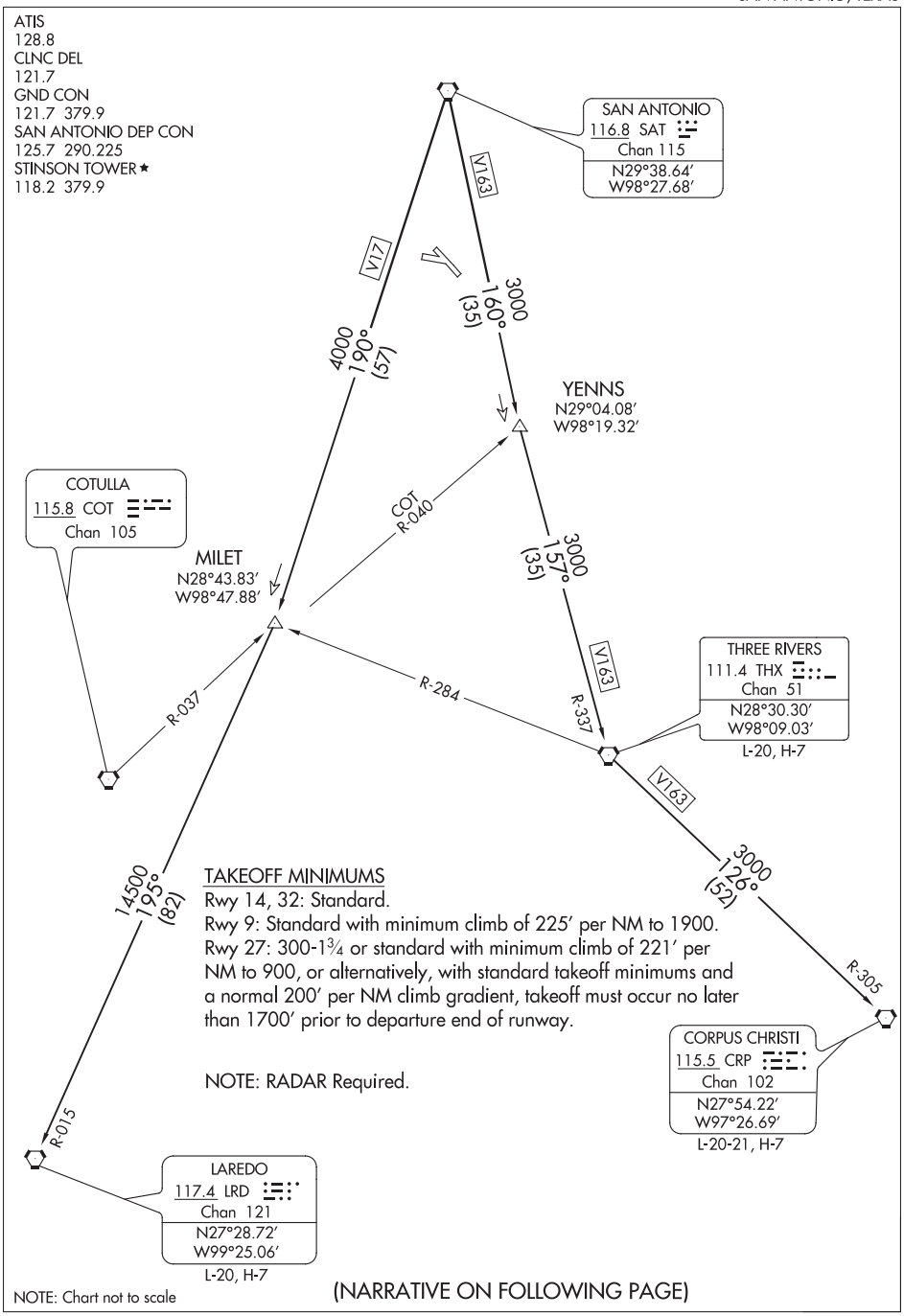
(BOWIE7.BOWIE) 20254

BOWIE SEVEN DEPARTURE

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ATIS
128.8
CLNC DEL
121.7
GND CON
121.7 379.9
SAN ANTONIO DEP CON
125.7 290.225
STINSON TOWER ★
118.2 379.9



TAKEOFF MINIMUMS

Rwy 14, 32: Standard.
Rwy 9: Standard with minimum climb of 225′ per NM to 1900.
Rwy 27: 300-1¾ or standard with minimum climb of 221′ per NM to 900, or alternatively, with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1700′ prior to departure end of runway.

NOTE: RADAR Required.

NOTE: Chart not to scale

(NARRATIVE ON FOLLOWING PAGE)

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BOWIE SEVEN DEPARTURE
(BOWIE7.BOWIE) 02MAR17

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 9, 14, 27, 32: Climb on assigned heading and altitude for RADAR vectors to SAT VORTAC, thence. . . .

. . . .on transition/route. Expect filed altitude 10 minutes after departure.

CORPUS CHRISTI TRANSITION (BOWIE7.CRP): From over SAT VORTAC on SAT R-160 to YENNS/SAT 35 DME, then on THX R-337 to THX VORTAC, then on THX R-126 and CRP R-305 to CRP VORTAC.

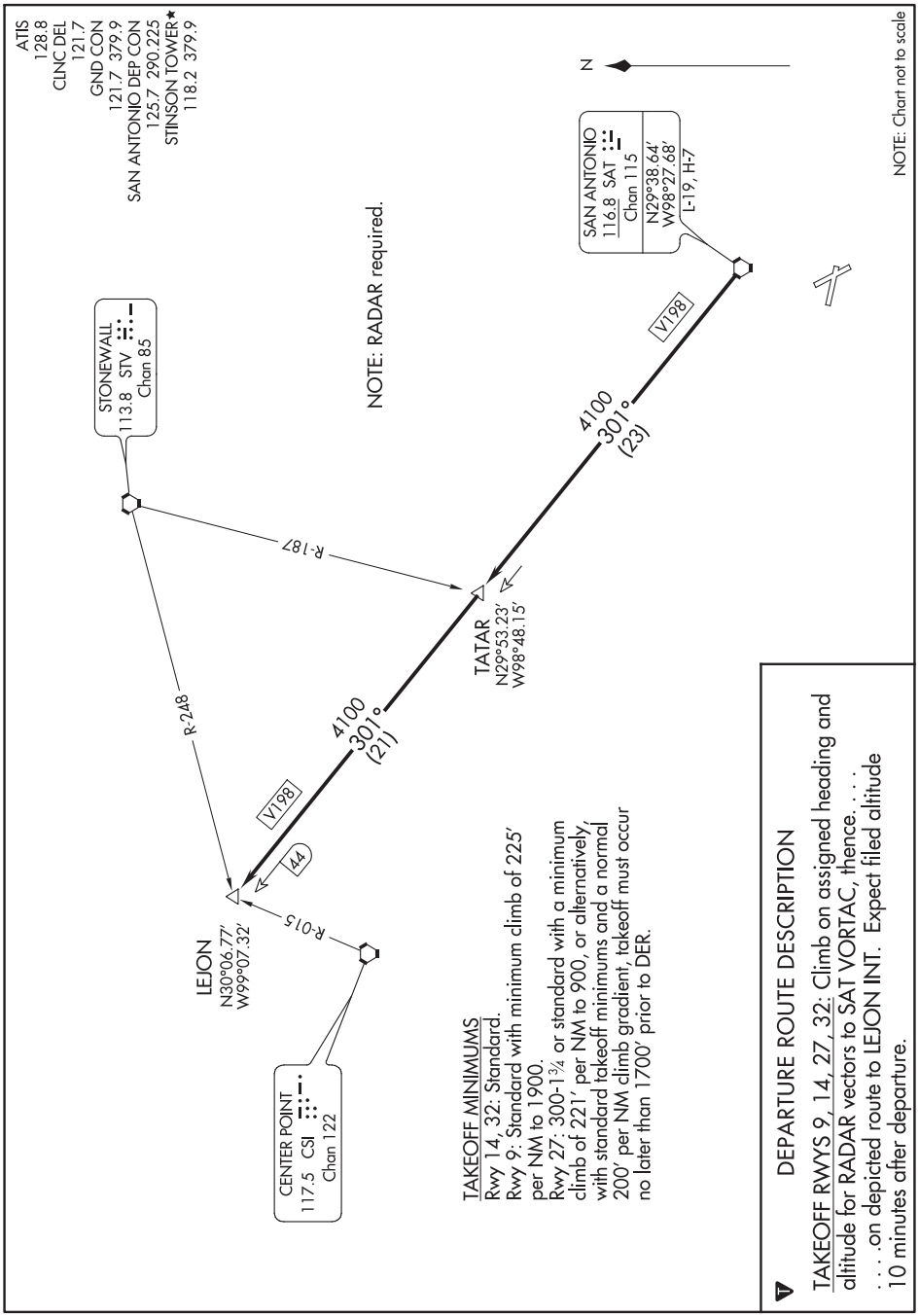
LAREDO TRANSITION (BOWIE7.LRD): From over SAT VORTAC on SAT R-190 to MILET/SAT 57 DME, then on LRD R-015 to LRD VORTAC.

(LEJON4.LEJON) 18032

AL-372 (FAA)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

LEJON FOUR DEPARTURE



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LEJON FOUR DEPARTURE

(LEJON4.LEJON) 02MAR17

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)

MILET FOUR DEPARTURE (RNAV)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS

ATIS 128.8
CLNC DEL
121.7
GND CON
121.7 379.9
SAN ANTONIO DEP CON
125.7 290.225
STINSON TOWER★
118.2 379.9

RAYBN
5000

5000
194°
(25)

MILET

NOTE: RNAV 1.
NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: For non-GPS equipped aircraft SAT, THX, and COT DME's must be operational.

5000
200°
(82)

LAREDO
LRD

TAKEOFF MINIMUMS
Rwy 14, 32: Standard.
Rwy 9: Standard with minimum climb of 225′ per NM to 1900.
Rwy 27: 300-1¾ or standard with a minimum climb of 221′ per NM to 900, or alternatively, with standard takeoff minimums and a normal 200′ per NM climb gradient, takeoff must occur no later than 1700′ prior to DER.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWYS 9, 14, 27, 32:
Climb on assigned heading and altitude for RADAR vectors to RAYBN, thence. . . .

. . . .on depicted route to LRD VORTAC. Expect filed altitude 10 minutes after departure.

NOTE: Chart not to scale.

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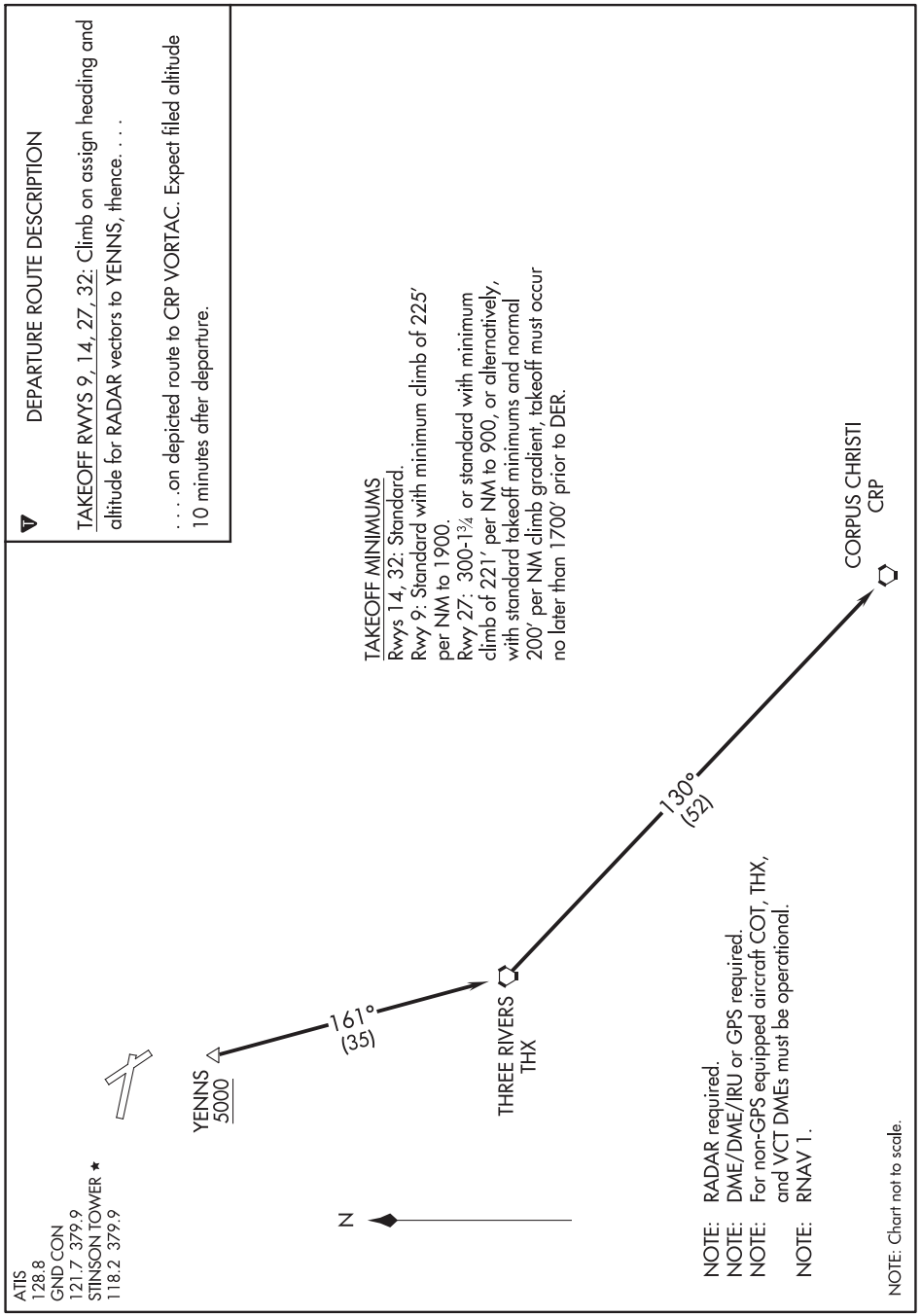
(THX4.THX) 18032 AL-372 (FAA)

THREE RIVERS FOUR DEPARTURE (RNAV)

STINSON MUNI (SSF)
SAN ANTONIO, TEXAS



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SC-3, 25 FEB 2021 to 22 APR 2021

THREE RIVERS FOUR DEPARTURE (RNAV)

(THX4.THX) 02MAR17

SAN ANTONIO, TEXAS
STINSON MUNI (SSF)

APP CRS	Rwy ldg	4073
140°	TDZE	48
	Apt Elev	48

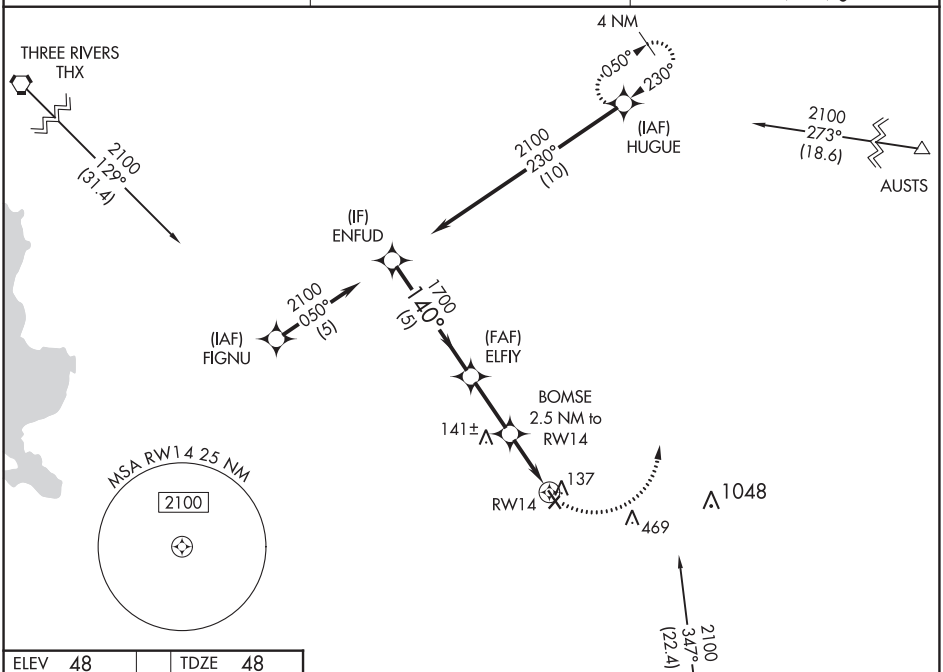
RNAV (GPS) RWY 14
ALFRED C 'BUBBA' THOMAS (T69)

RNP APCH.

Procedure NA at night.
Rwy 14 helicopter visibility reduction below 1 SM NA.

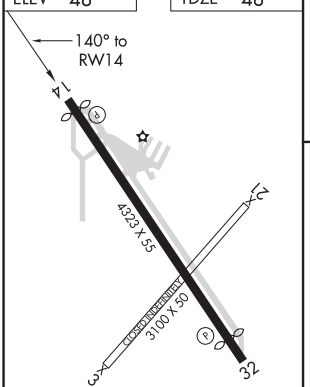
MISSED APPROACH: Climbing left turn to 2100 direct HUGUE and hold.

AWOS-3	CORPUS APP CON	UNICOM
118.25	120.9 348.725	122.8 (CTAF) L

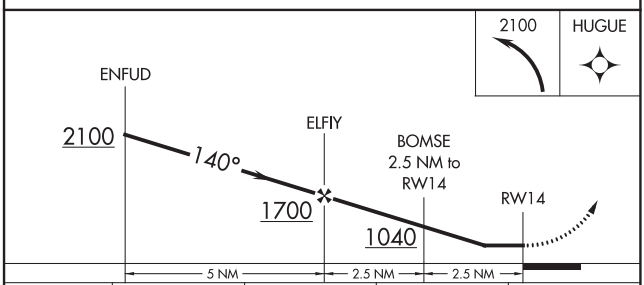


Procedure NA for arrivals at CRP VORTAC on V20-70 southwest bound.

ELEV 48 | TDZE 48



MIRL Rwy 14-32 L
REIL Rwys 14 and 32 L



CATEGORY	A	B	C	D
LNAV MDA	480-1	432 (500-1)	NA	
CIRCLING	620-1 572 (600-1)	720-1 672 (700-1)	NA	

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SC-3, 25 FEB 2021 to 22 APR 2021

SINTON, TEXAS

AL-5274 (FAA)

20366

RNAV (GPS) RWY 32

ALFRED C 'BUBBA' THOMAS (T69)

APP CRS	Rwy ldg	3923
320°	TDZE	48
	Apt Elev	48

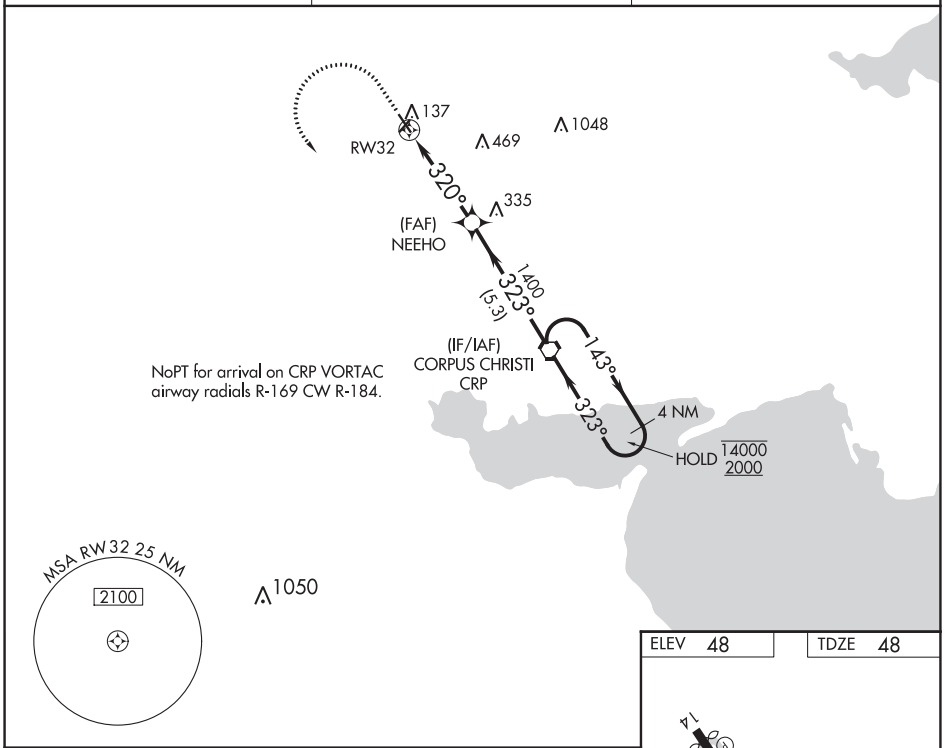
RNP APCH.

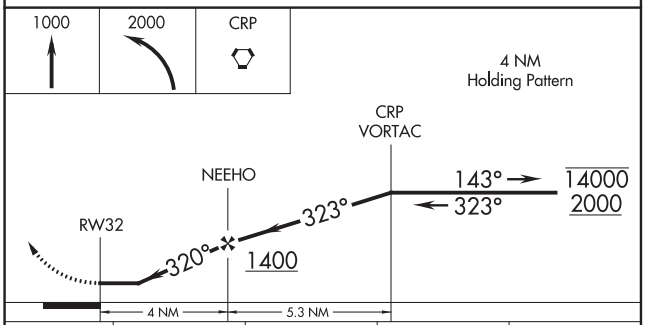
Procedure NA at night.

Rwy 32 helicopter visibility reduction below 1 SM NA.

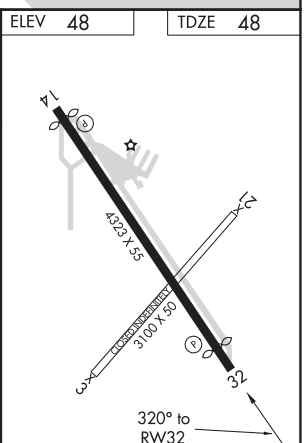
MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct CRP VORTAC and hold.

AWOS-3	CORPUS APP CON	UNICOM
118.25	120.9 348.725	122.8 (CTAF) L





CATEGORY	A	B	C	D
LNAV MDA	520-1 472 (500-1)		NA	
CIRCLING	620-1 572 (600-1)	720-1 672 (700-1)	NA	



MIRL Rwy 14-32 L

REIL Rwys 14 and 32 L

SC-3, 25 FEB 2021 to 22 APR 2021

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VORTAC CRP	APP CRS	Rwy ldg	4073
115.5	138°	TDZE	48
Chan 102		Apt Elev	48

VOR RWY 14

ALFRED C 'BUBBA' THOMAS (T69)

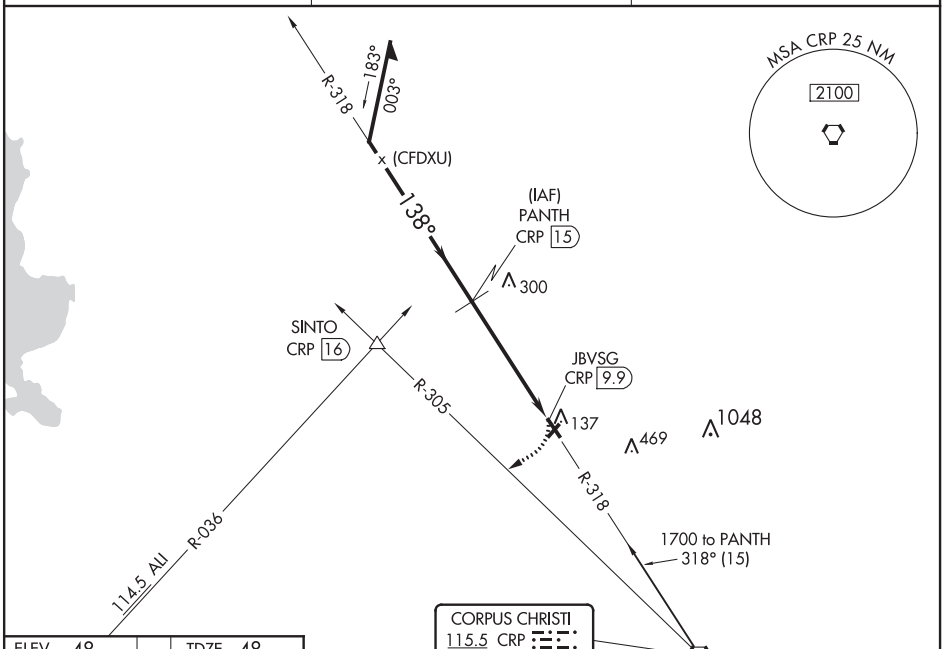
DME required.

Procedure NA at night.

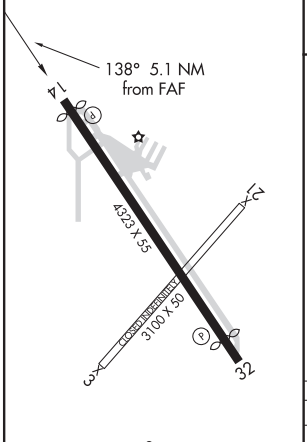
Rwy 14 helicopter visibility reduction below 1 SM NA.

MISSED APPROACH: Climbing right turn to 1800 on heading 230° and CRP VORTAC R-305 to SINTO INT/CRP 16 DME.

AWOS-3	CORPUS APP CON	UNICOM
118.25	120.9 348.725	122.8 (CTAF) L



ELEV 48	TDZE 48

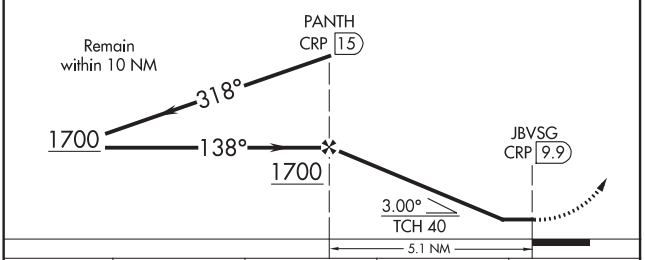


MIRL Rwy 14-32 L

REIL Rwys 14 and 32 L

VGSI and descent angles not coincident (VGSI Angle 3.00°/TCH 19).

1800 hdg 230°	CRP R-305	SINTO △



CATEGORY	A	B	C	D
S-14	640-1	592 (600-1)	NA	
CIRCLING	640-1 592 (600-1)	720-1 672 (700-1)	NA	

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SONORA, TEXAS | AL-6360 (FAA) | 20198

NDB or GPS RWY 18
SONORA MUNI (SOA)

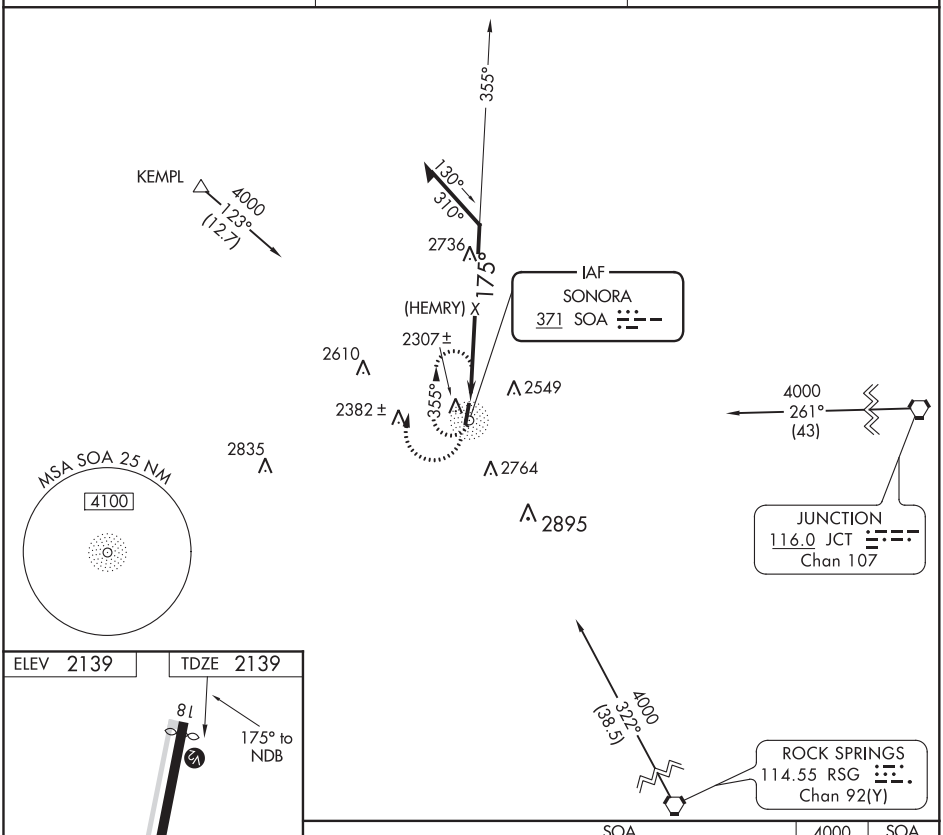
NDB SOA	APP CRS	Rwy ldg	3944
371	175°	TDZE	2139
		Apt Elev	2139

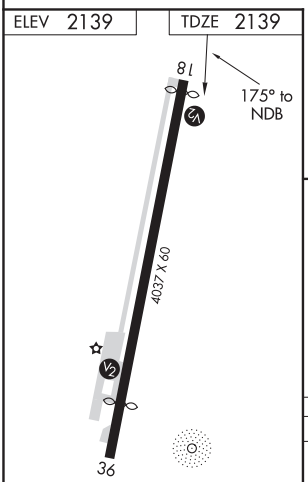
NA

Procedure not authorized at night.
Use San Angelo altimeter setting.

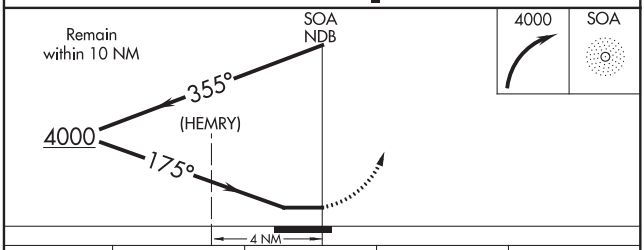
MISSED APPROACH: Climbing right turn to 4000 in SOA NDB holding pattern.

AWOS-3	HOUSTON CENTER	UNICOM
118.075	125.75 346.4	122.8 (CTAF)





MIRL Rwy 18-36
REIL Rwy 18 and 36



CATEGORY	A	B	C	D
S-18	3240-1¼ 1101 (1200-1¼)	3240-1½ 1101 (1200-1½)	NA	
CIRCLING	3240-1¼ 1101 (1200-1¼)	3240-1½ 1101 (1200-1½)	NA	

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RNAV (GPS) RWY 17
TAYLOR MUNI (T74)

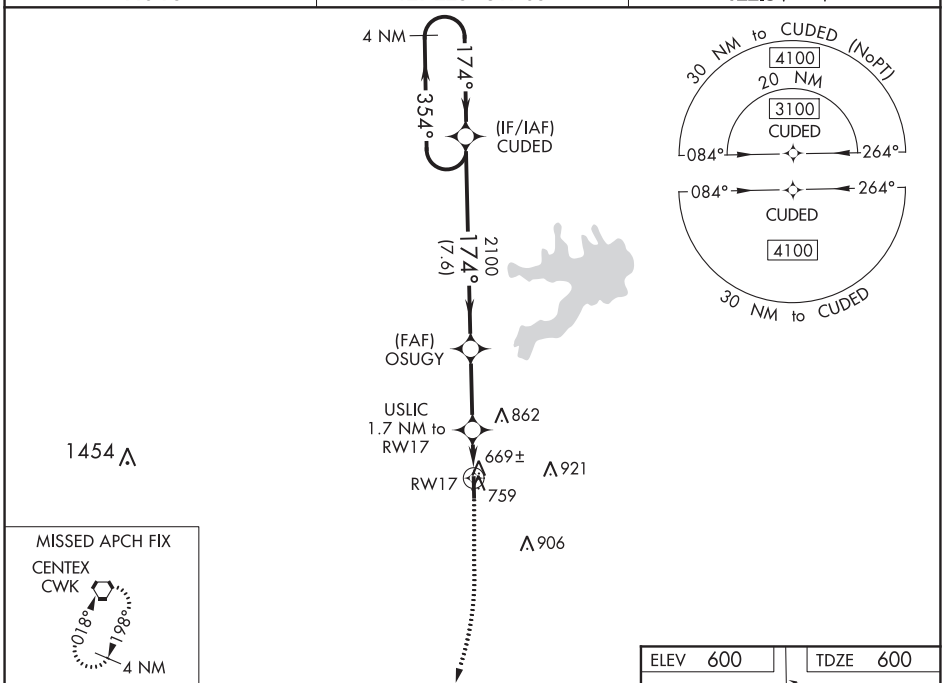
WAAS CH 90535 W17A	APP CRS 174°	Rwy ldg 4000 TDZE 600 Apt Elev 600

RNP APCH.

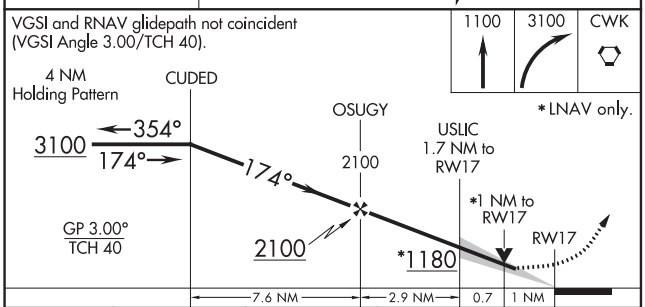
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16C or above 54C. When local altimeter setting not received, use Austin-Executive altimeter setting and increase all DA to 914 feet and all MDA 40 feet. VDP and Baro-VNAV NA when using Austin-Executive altimeter setting.

MISSED APPROACH: Climb to 1100 then climbing right turn to 3100 direct CWK VORTAC and hold.

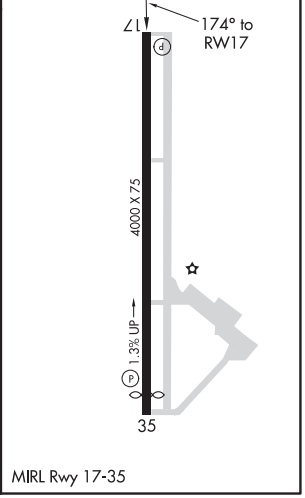
AWOS-3PT	AUSTIN APP CON	UNICOM
119.75	127.225 317.65	122.8 (CTAF)



VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 40).



CATEGORY	A	B	C	D
LPV DA	882-⅞	282 (300-⅞)	NA	
LNAV/VNAV DA	882-⅞	282 (300-⅞)	NA	
LNAV MDA	960-1	360 (400-1)	NA	
C CIRCLING	1100-1	500 (500-1)	NA	



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TAYLOR, TEXAS | AL-6938 (FAA) | 20282

VOR RWY 17
TAYLOR MUNI (T74)

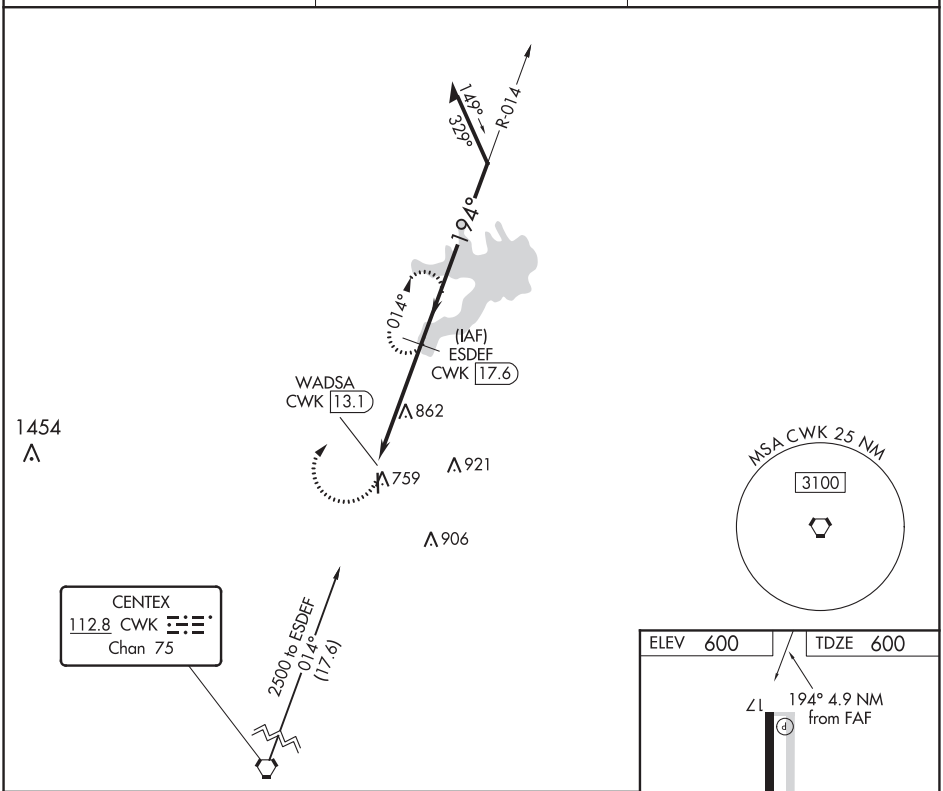
VORTAC CWK 112.8 Chan 75	APP CRS 194°	Rwy ldg 4000 TDZE 600 Apt Elev 600

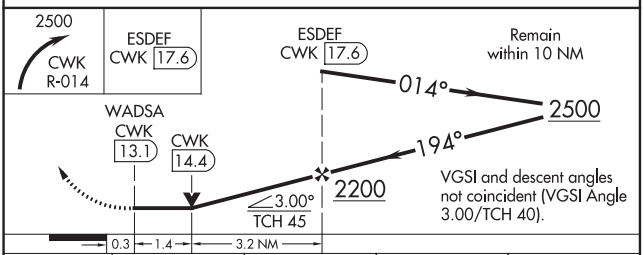
DME required.

Circling Rwy 35 NA at night. Rwy 17 helicopter visibility reduciton below ¾ SM NA. When local altimeter setting not received, use Austin-Executive altimeter setting and increase all MDA 40 feet. VDP NA when using Austin-Executive altimeter setting.

MISSED APPROACH: Climbing right turn to 2500 on CWK VORTAC R-014 to ESDEF/17.6 DME and hold.

AWOS-3PT	AUSTIN APP CON	UNICOM
119.75	127.225 317.65	122.8 (CTAF)





CATEGORY	A	B	C	D
S-17	1180-1	580 (600-1)	NA	
C CIRCLING	1180-1	580 (600-1)	NA	

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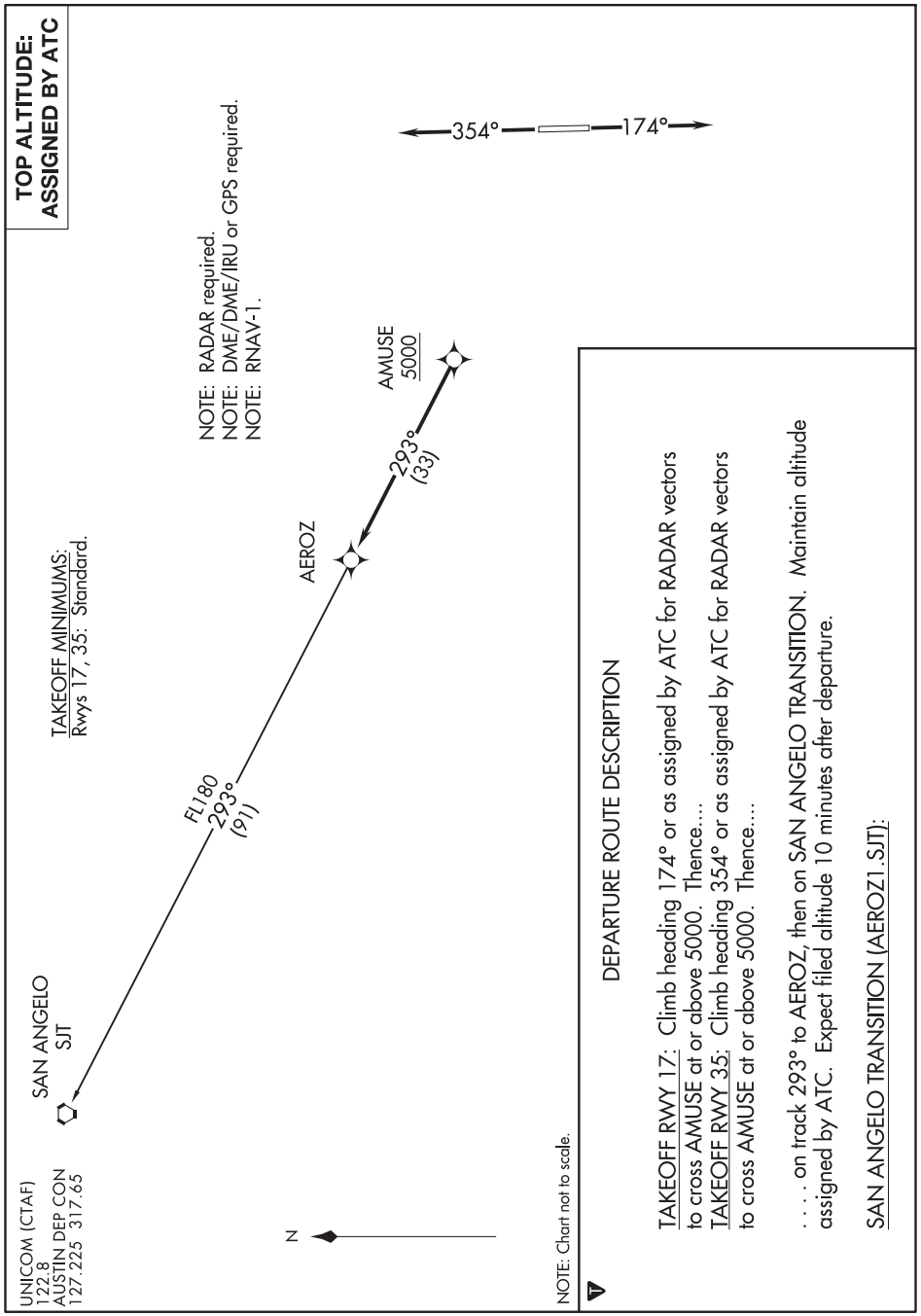

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 174° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....
TAKEOFF RWY 35: Climb heading 354° or as assigned by ATC for RADAR vectors to cross AMUSE at or above 5000. Thence....

. . . . on track 293° to AEROZ, then on SAN ANGELO TRANSITION. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

SAN ANGELO TRANSITION (AEROZ1.SJT):

(BNDIA2.BNDIA) 17341 AL-6938 (FAA)

BNDIA TWO DEPARTURE (RNAV)

TAYLOR MUNI (T74)
TAYLOR, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
122.8
AUSTIN DEP CON
127.225 317.65

354°
174°

GARDS
5000

TAKEOFF MINIMUMS:
Rwys 17, 35: Standard.

224°
(36)

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

BNDIA

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 174° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....
TAKEOFF RWY 35: Climb heading 354° or as assigned by ATC for RADAR vectors to cross GARDS at or above 5000. Thence....

. . . . on track 224° to BNDIA. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

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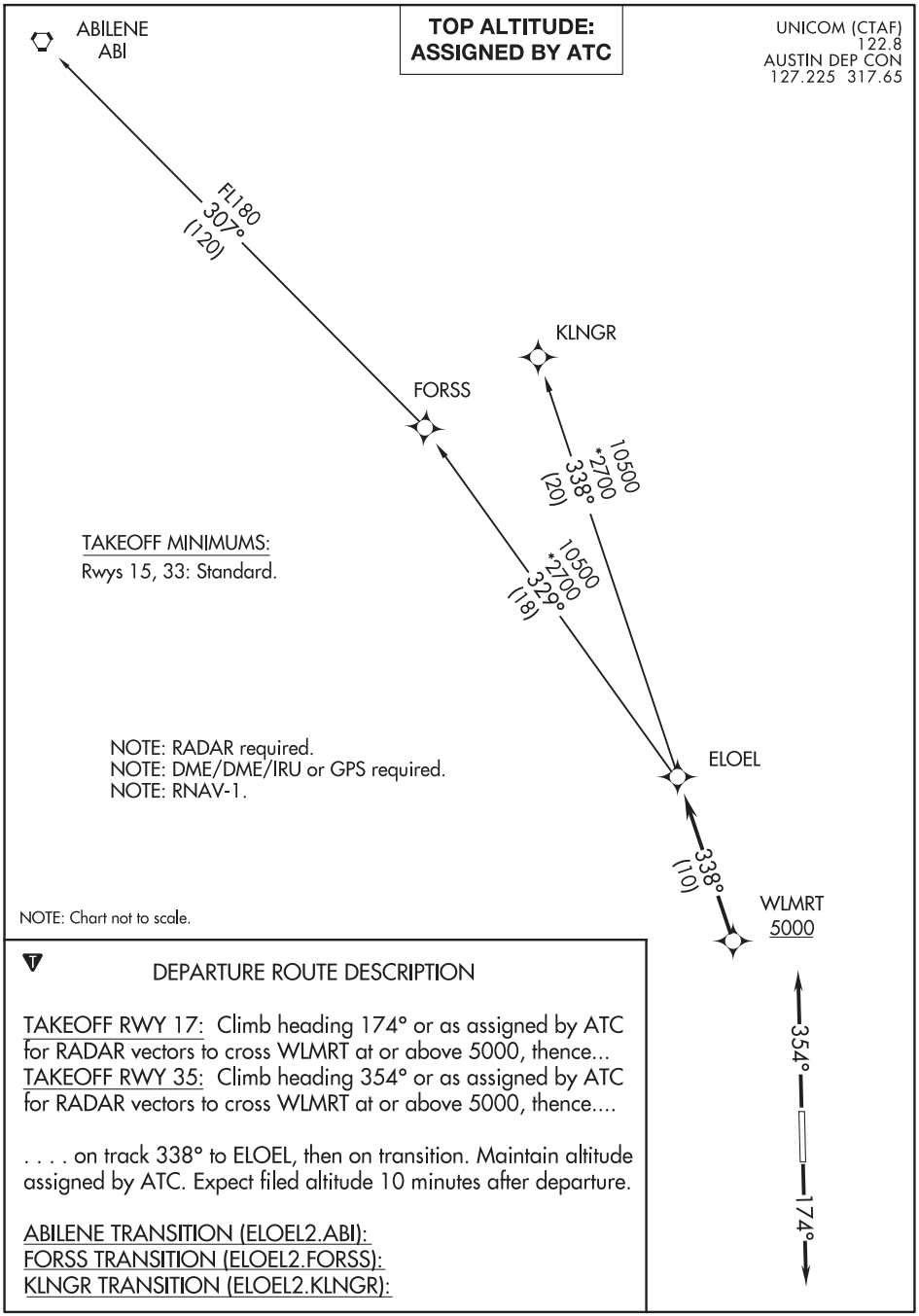
ELOEL TWO DEPARTURE (RNAV)

AL-6938 (FAA)



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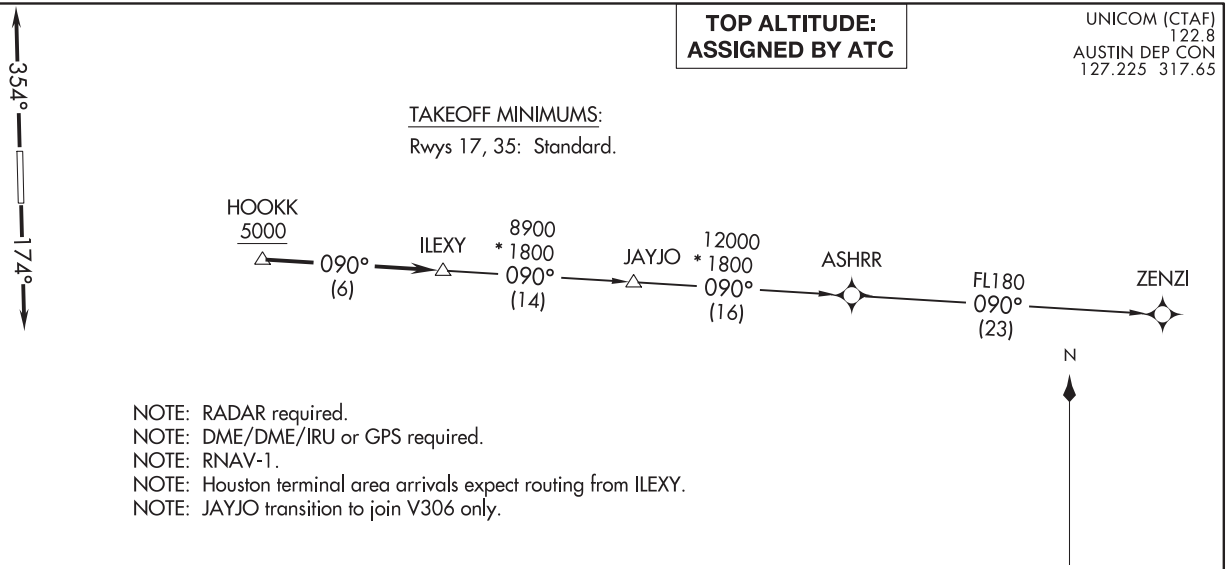
SC-3, 25 FEB 2021 to 22 APR 2021

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF) 122.8
AUSTIN DEP CON 127.225 317.65

TAKEOFF MINIMUMS:
Rwys 17, 35: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: Houston terminal area arrivals expect routing from ILEXY.
NOTE: JAYJO transition to join V306 only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 174° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....
TAKEOFF RWY 35: Climb heading 354° or as assigned by ATC for RADAR vectors to cross HOOKK at or above 5000, thence....

. . . . on track 090° to ILEXY, then on transition. Maintain altitude assigned by ATC. Expect filed altitude 10 minutes after departure.

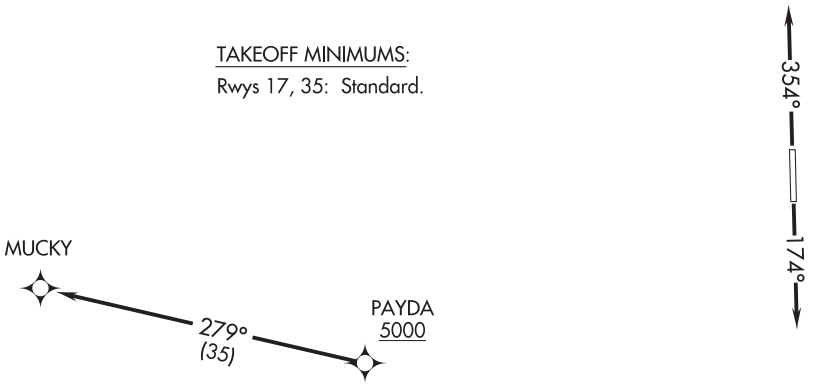
JAYJO TRANSITION (ILEXY2.JAYJO):
ZENZI TRANSITION (ILEXY2.ZENZI):

MUCKY TWO DEPARTURE (RNAV)

UNICOM (CTAF)
122.8
AUSTIN DEP CON
127.225 317.65

TOP ALTITUDE: ASSIGNED BY ATC

TAKEOFF MINIMUMS:
Rwys 17, 35: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 174° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .
TAKEOFF RWY 35: Climb heading 354° or as assigned by ATC for RADAR vectors to cross PAYDA at or above 5000, thence. . . .

. . . . on track 279° to MUCKY. Maintain altitude assigned by ATC.
Expect filed altitude 10 minutes after departure.

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(SAYBR2.SAYBR) 17341

SAYBR TWO DEPARTURE (RNAV)

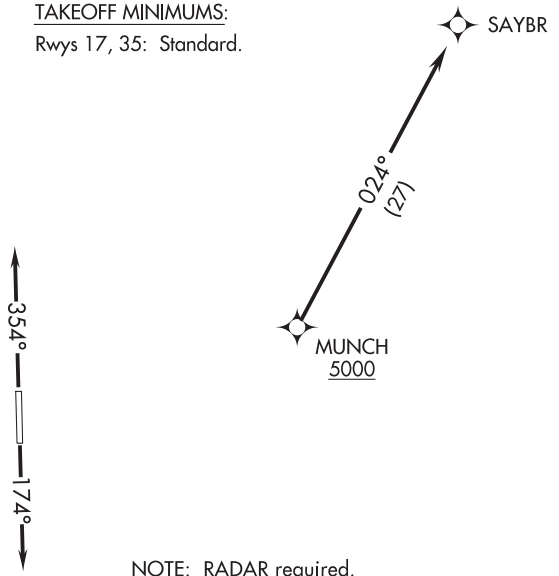
AL-6938 (FAA)

TAYLOR MUNI (T74)
TAYLOR, TEXAS

TOP ALTITUDE: ASSIGNED BY ATC

UNICOM (CTAF)
122.8
AUSTIN DEP CON
127.225 317.65

TAKEOFF MINIMUMS:
Rwys 17, 35: Standard.



NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV-1.
NOTE: For DFW terminal area arrivals at FL230 or below only.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 17: Climb heading 174° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .
TAKEOFF RWY 35: Climb heading 354° or as assigned by ATC for RADAR vectors to cross MUNCH at or above 5000, thence. . . .

. . . . on track 024° to SAYBR. Maintain altitude assigned by ATC.
Expect filed altitude 10 minutes after departure.

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ILS or LOC RWY 15
DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

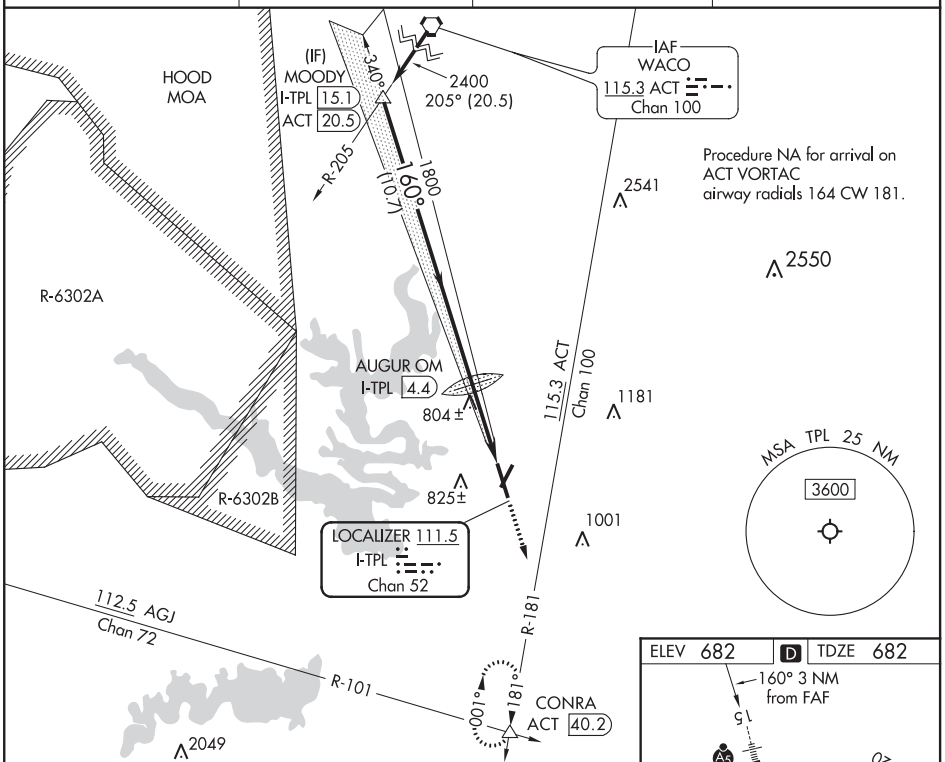
LOC/DME I-TPL	APP CRS	Rwy ldg	6301
111.5	160°	TDZE	682
Chan 52		Apt Elev	682

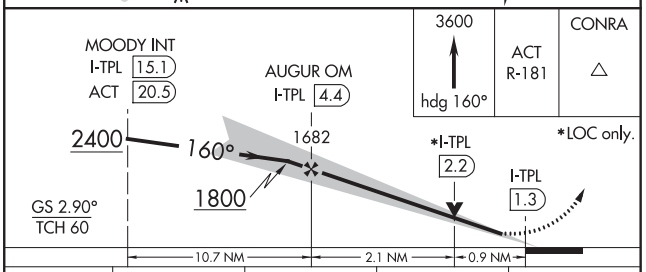
T NA — Autopilot coupled approach NA below 990. For inop ALS, increase S-LOC 15 Cats C/D visibility to 1 SM.

MALSR A5

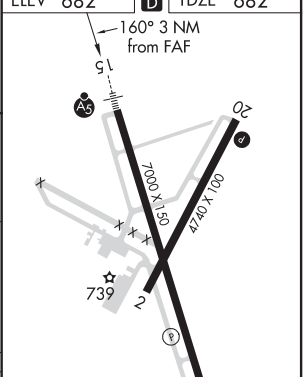
MISSED APPROACH: Climb to 3600 on heading 160° and on ACT VORTAC R-181 to CONRA INT/ACT 40.2 DME and hold, continue climb-in-hold to 3600.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
134.975	120.075 370.0	125.9	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-ILS 15	882-½ 200 (200-½)			
S-LOC 15	1060-½ 378 (400-½)		1060-¾ 378 (400-¾)	
C CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1280-1½ 598 (600-1½)	1420-2¼ 738 (800-2¼)



FAF to MAP 3 NM					
Knots	60	90	120	150	180
Min:Sec	3:00	2:00	1:30	1:12	1:00

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TEMPLE, TEXAS | AL-809 (FAA) | 20366

WAAS Ch 78101 W15A	APP CRS 160°	Rwy ldg 6301 TDZE 682 Apt Elev 682

RNAV (GPS) RWY 15
DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

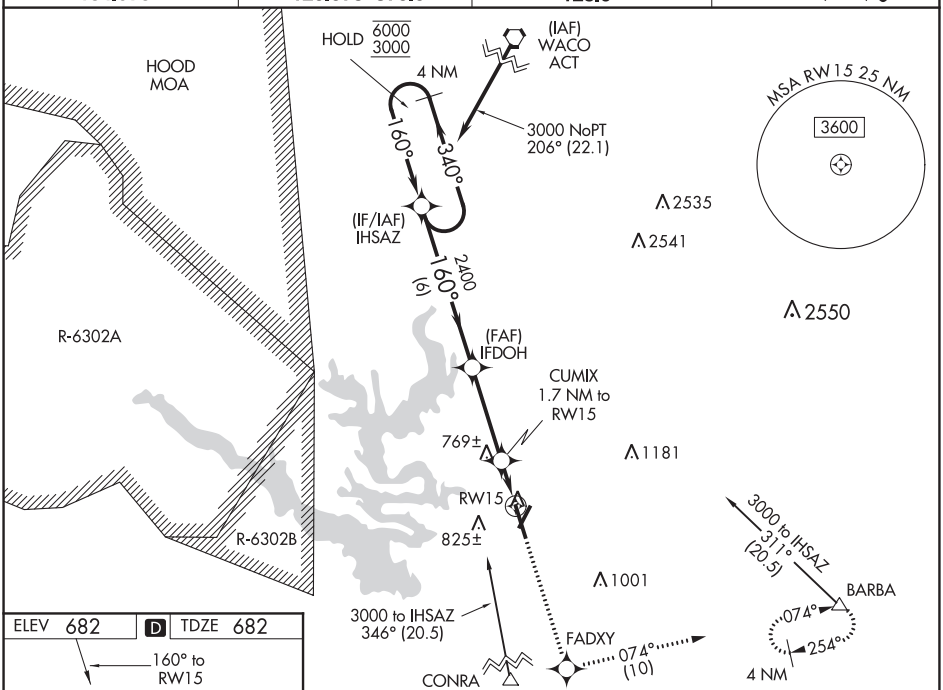
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats and LNAV Cats C visibility to 1 SM.

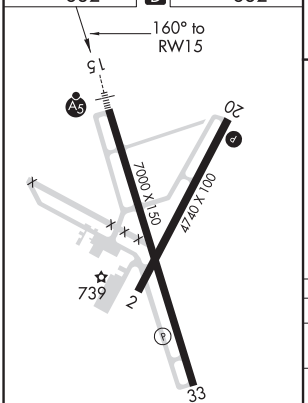
MALSR

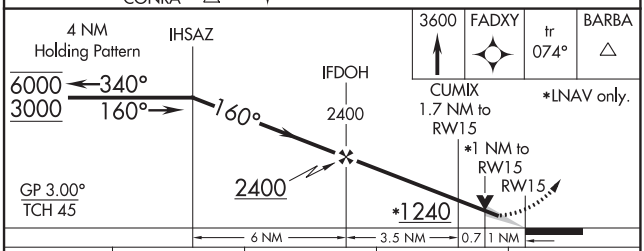
MISSED APPROACH: Climb to 3600 direct FADXY and on track 074° to BARBA and hold, continue climb-in-hold to 3600.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
134.975	120.075 370.0	125.9	123.0 (CTAF) L



ELEV 682 | D | TDZE 682





CATEGORY	A	B	C	D
LPV DA	882-½ 200 (200-½)			
LNAV/VNAV DA	1025-¾ 343 (400-¾)			
LNAV MDA	1040-½ 358 (400-½)		1040-⅝ 358 (400-⅝)	1040-1 358 (400-1)
C CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1280-1½ 598 (600-1½)	1420-2¼ 738 (800-2¼)

MIRL Rwy 2-20
MIRL Rwy 15-33 L

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WAAS Ch 82401 W33A	APP CRS 340°	Rwy ldg 6301 TDZE 674 Apt Elev 682

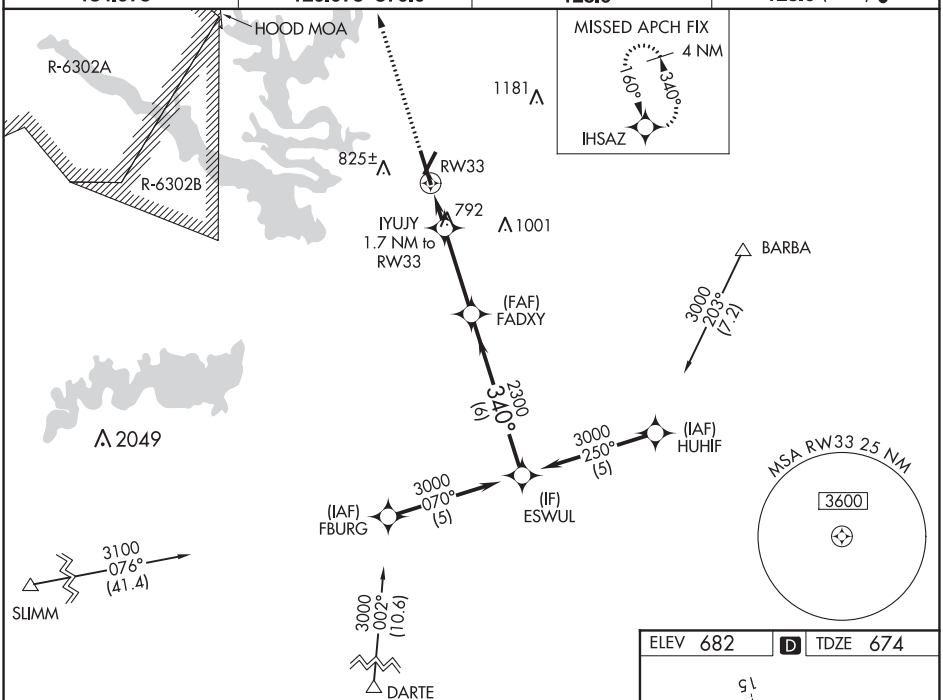
RNAV (GPS) RWY 33
DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

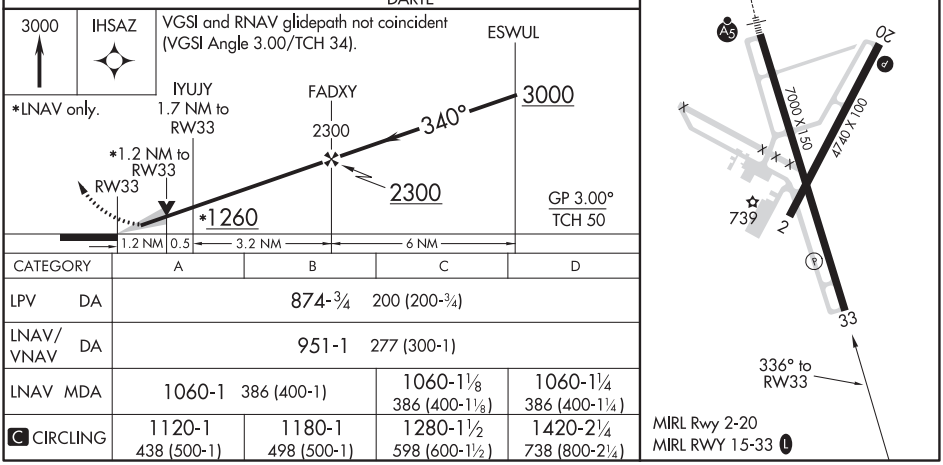
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C or above 54°C .

MISSED APPROACH: Climb to 3000 direct IHSAZ and hold.

AWOS-3PT	GRAY APP CON	CLNC DEL	UNICOM
134.975	120.075 370.0	125.9	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	874-¾ 200 (200-¾)			
LNAV/VNAV DA	951-1 277 (300-1)			
LNAV MDA	1060-1 386 (400-1)		1060-1⅛ 386 (400-1⅛)	1060-1¼ 386 (400-1¼)
C CIRCLING	1120-1 438 (500-1)	1180-1 498 (500-1)	1280-1½ 598 (600-1½)	1420-2¼ 738 (800-2¼)

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SC-3, 25 FEB 2021 to 22 APR 2021

UVALDE, TEXAS

AL-872 (FAA)

19115

RNAV (GPS) RWY 33

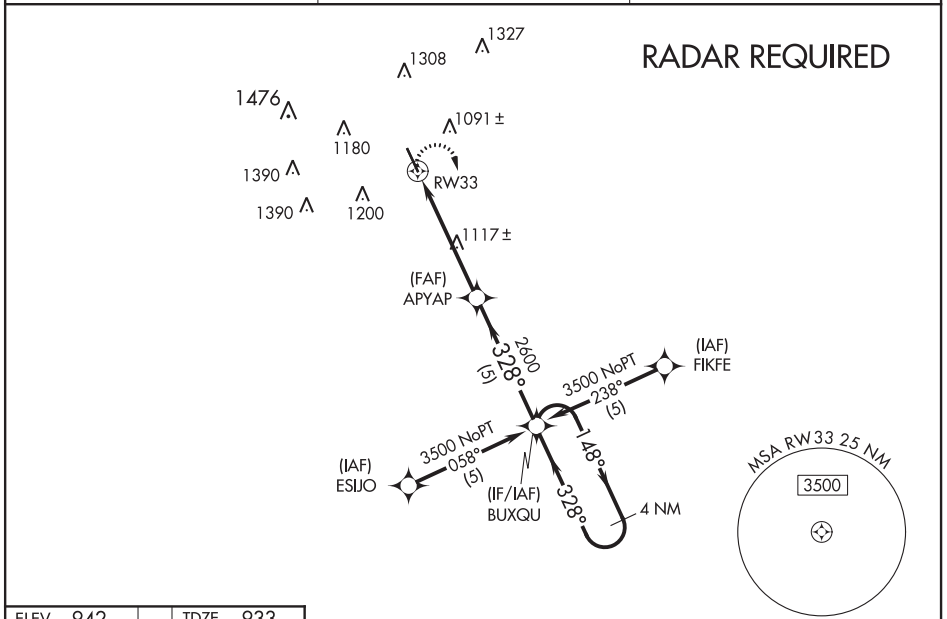
GARNER FIELD (UVA)

APP CRS	Rwy ldg	5256
328°	TDZE	933
	Apt Elev	942

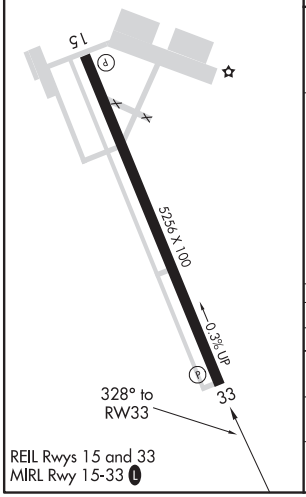
When local altimeter setting not received, use South Texas Rgnl at Hondo altimeter setting and increase all MDA 100 feet and increase LNAV Cat C and D and Circling Cat C visibility ¼ mile. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 3500 direct BUXQU WP and hold.

AWOS-3	HOUSTON CENTER	UNICOM
124.175	134.95 269.4	122.8 (CTAF) L



ELEV 942 | TDZE 933

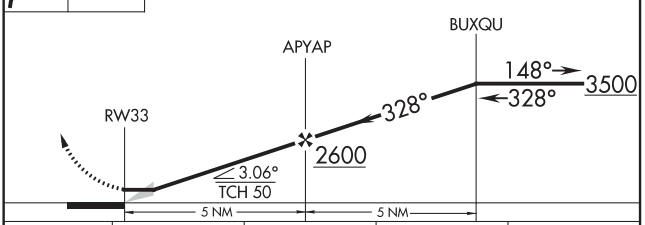


REIL Rwys 15 and 33
MIRL Rwy 15-33 L

3500 | BUXQU

VGSI and descent angle not coincident (VGSI Angle 3.00/TCH 35).

4 NM Holding Pattern



CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/ VNAV DA	NA			
LNAV MDA	1380-1 447 (500-1)		1380-1¼ 447 (500-1¼)	1380-1½ 447 (500-1½)
CIRCLING	1380-1 438 (500-1)	1460-1 518 (600-1)	1460-1½ 518 (600-1½)	1500-2 558 (600-2)

UVALDE, TEXAS
Orig-A 17NOV11

29°13'N-99°45'W

GARNER FIELD (UVA)

RNAV (GPS) RWY 33

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

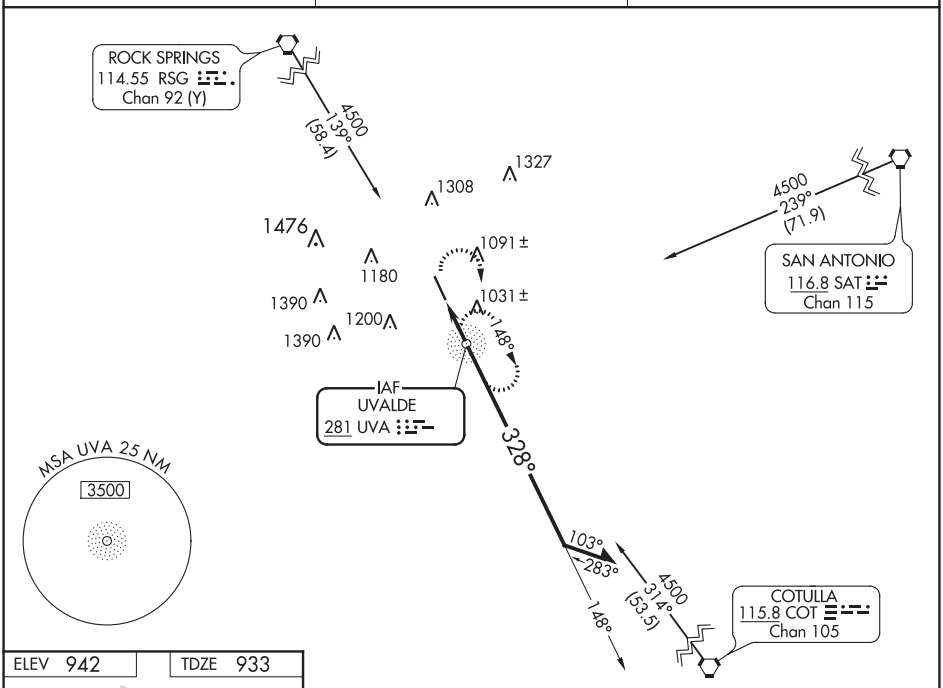
NDB RWY 33
GARNER FIELD (UVA)

NDB UVA	APP CRS	Rwy ldg	5256
281	328°	TDZE	933
		Apt Elev	942

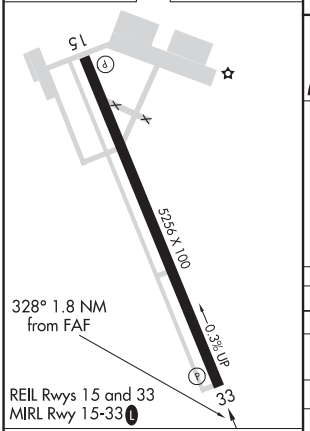
T NA — Obtain local altimeter setting on CTAF; when not received, use South Texas Rgnl at Hondo altimeter setting.

MISSED APPROACH: Climbing right turn to 2900 direct UVA NDB and hold.

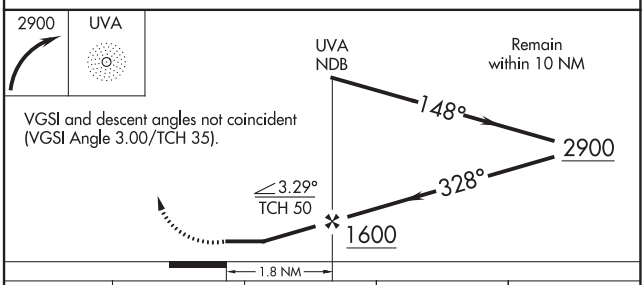
AWOS-3	HOUSTON CENTER	UNICOM
124.175	134.95 269.4	122.8 (CTAF) L



ELEV 942 | TDZE 933



FAF to MAP 1.8 NM					
Knots	60	90	120	150	180
Min:Sec	1:48	1:12	0:54	0:43	0:36



VGSI and descent angles not coincident (VGSI Angle 3.00/TCH 35).

CATEGORY	A	B	C	D
S-33	1340-1 407 (400-1)		1340-1¼ 407 (400-1¼)	
CIRCLING	1340-1 398 (400-1)	1460-1 518 (600-1)	1460-1½ 518 (600-1½)	1500-2 558 (600-2)
SOUTH TEXAS REGIONAL AT HONDO ALTIMETER SETTING MINIMUMS				
S-33	1440-1 507 (500-1)		1440-1½ 507 (500-1½)	
CIRCLING	1440-1 498 (500-1)	1560-1 618 (700-1)	1560-1¾ 618 (700-1¾)	1600-2 658 (700-2)

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VAN HORN, TEXAS | AL-6227 (FAA) | 20198

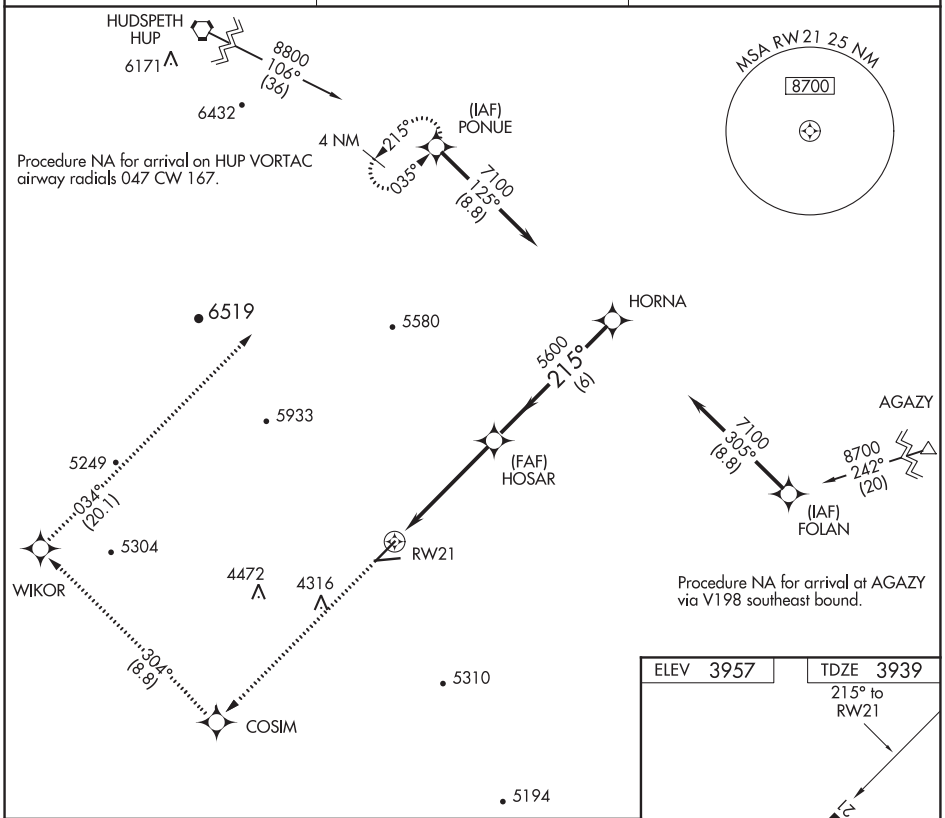
RNAV (GPS) RWY 21
CULBERSON COUNTY (VHN)

APP CRS	Rwy ldg	6005
215°	TDZE	3939
	Apt Elev	3957

T NA: Obtain local altimeter setting on CTAF; when not received, procedure NA. DME/DME RNP-0.3 NA. Night landing: Rwy 7, 25 NA.

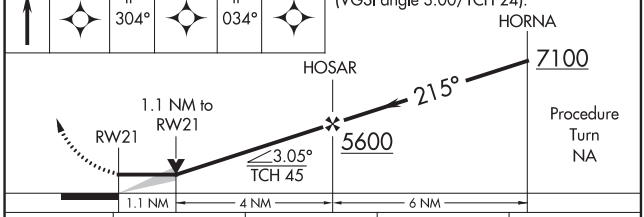
MISSED APPROACH: Climb to 8800 direct COSIM WP, and via 304° track to WIKOR WP and via 034° track to PONUE WP and hold.

AWOS-3PT	ALBUQUERQUE CENTER	CTAF
119.925	135.875 292.15	122.9



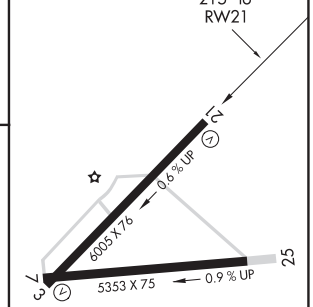
8800	COSIM	tr 304°	WIKOR	tr 034°	PONUE

VGSI and descent angles not coincident (VGSI angle 3.00/TCH 24).



CATEGORY	A	B	C	D
LNAV MDA	4300-1 361 (400-1)			4300-1¼ 361 (400-1¼)
CIRCLING	4440-1 483 (500-1)	4460-1 503 (600-1)	4480-1½ 523 (600-1½)	4840-3 883 (900-3)

ELEV 3957 | TDZE 3939



MIRL Rwys 3-21 and 7-25

SC-3, 25 FEB 2021 to 22 APR 2021

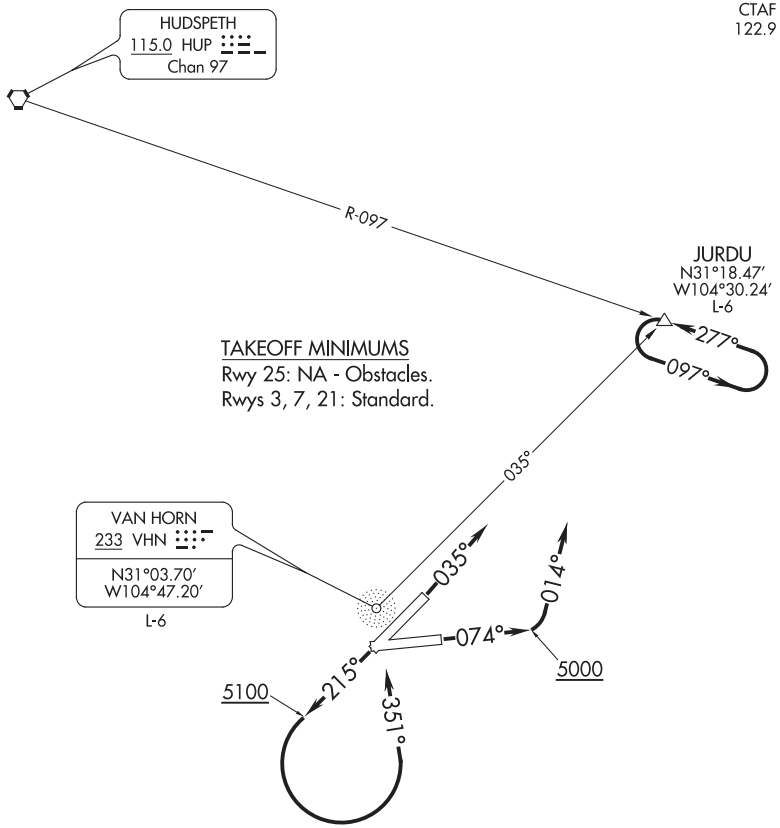
SC-3, 25 FEB 2021 to 22 APR 2021

VAN HORN, TEXAS
Orig-A 23JUL15

31°03′N-104°47′W

CULBERSON COUNTY (VHN)
RNAV (GPS) RWY 21

JURDU ONE DEPARTURE (OBSTACLE)



NOTE: Chart not to scale.

(NOTES CONTINUED ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKEOFF RUNWAY 3: Climb on bearing 035° from VHN NDB to JURDU INT, thence . . .

TAKEOFF RUNWAY 7: Climb heading 074° to 5000 then climbing left turn heading 014° to intercept bearing 035° from VHN NDB to JURDU INT, thence . . .

TAKEOFF RUNWAY 21: Climb heading 215° to 5100, then climbing left turn to intercept course 351° to VHN NDB, then climb on bearing 035° from VHN NDB to JURDU INT, thence . . .

. . . cross JURDU INT at or above MEA for route of flight. If not at or above MEA for route of flight, continue climb in hold, east, left turn, 277° inbound until reaching MEA before proceeding on course.

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TAKEOFF OBSTACLE NOTES

Rwy 3: Tree, vegetation beginning 16′ from DER, 133′ right of centerline, up to 11′ AGL/3928′ MSL.
Trees, vegetation beginning 45′ from DER, 147′ left of centerline, up to 11′ AGL/3929′ MSL.
Tree, traverse way beginning 135′ from DER, 487′ right of centerline, up to 17′ AGL/3930′ MSL.
Trees, traverse way beginning 248′ from DER, 343′ right of centerline, up to 18′ AGL/3931′ MSL.

Rwy 7: Vegetation beginning 60′ from DER, 12′ right of centerline, up to 100′ AGL/3918′ MSL.
Vegetation 119′ from DER, 215′ left of centerline, 100′ AGL/3915′ MSL.
Vegetation beginning 148′ from DER, 12′ left of centerline, up to 100′ AGL/3918′ MSL.

Rwy 21: Tree, vegetation beginning 49′ from DER, 291′ right of centerline, up to 10′ AGL/3969′ MSL.
Vegetation beginning 84′ from DER, 404′ left of centerline, up to 100′ AGL/3961′ MSL.
Vegetation 4132′ from DER, 1604′ right of centerline, 100′ AGL/3990′ MSL.

WAAS CH 63230 W17A	APP CRS 173°	Rwy ldg 5501 TDZE 592 Apt Elev 592

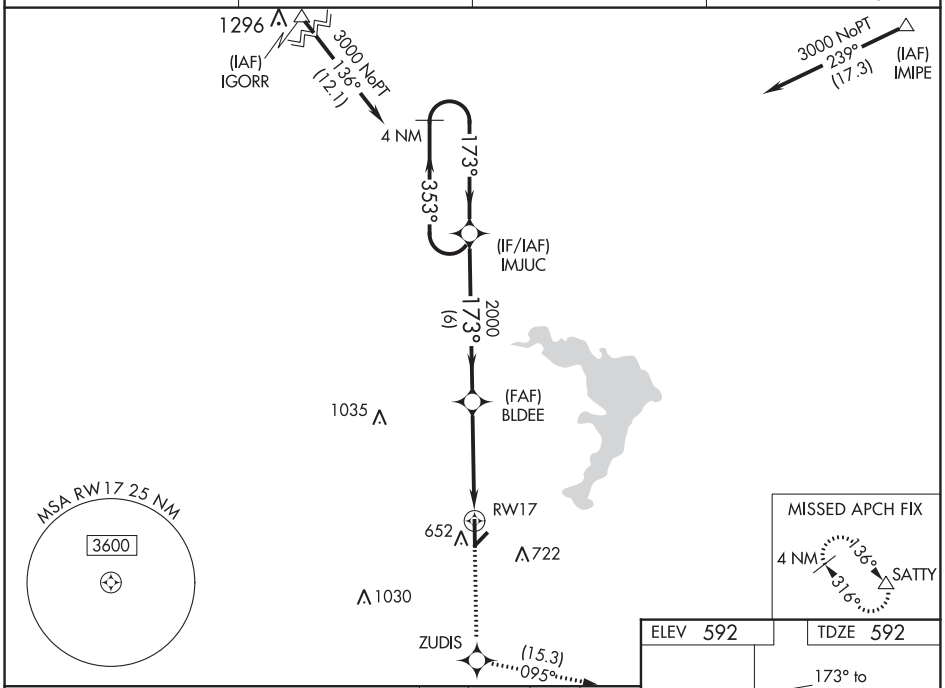
RNAV (GPS) RWY 17
MC GREGOR EXECUTIVE (PWG)

Circling to Rwy 4 NA at night. Baro-VNAV NA when using Waco Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Waco Rgnl altimeter setting and increase all DA 31 feet and MDA 40 feet, and increase LPV all Cats visibility and LNAV/VNAV all Cats visibility ⅛ mile.

ASR

MISSED APPROACH: Climb to 2500 direct ZUDIS and on track 095° to SATTY and hold.

AWOS-3PT	WACO APP CON ★	GCO	UNICOM
135.525	127.65 352.0	121.725	122.8 (CTAF) L



CATEGORY	A	B	C	D
LPV DA	842-¾ 250 (300-¾)			NA
LNAV/VNAV DA	842-¾ 250 (300-¾)			NA
LNAV MDA	1040-1 448 (500-1)		1040-1⅜ 448 (500-1⅜)	NA
CIRCLING	1040-1 448 (500-1)	1060-1 468 (500-1)	1060-1½ 468 (500-1½)	NA

MIRL Rwy 17-35 L
REIL Rwy 17 L

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WACO, TEXAS | AL-5441 (FAA) | 19115

RNAV (GPS) RWY 35
MC GREGOR EXECUTIVE (PWG)

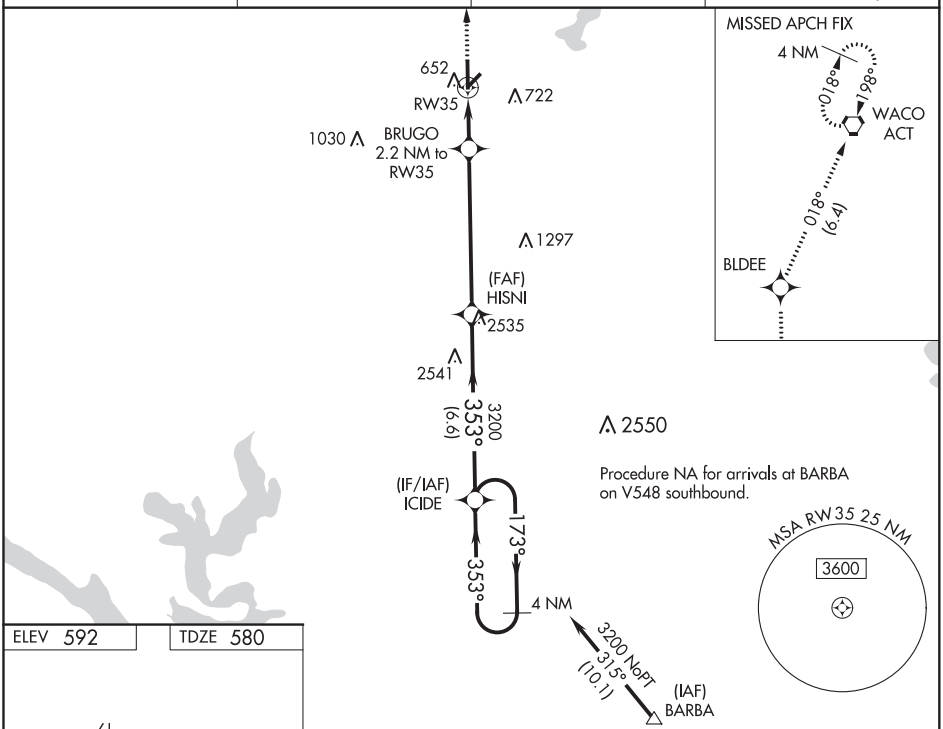
WAAS CH 87130 W35A	APP CRS 353°	Rwy ldg 5501 TDZE 580 Apt Elev 592

Circling to Rwy 4 NA at night. Baro-VNAV NA when using Waco Rgnl altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). When local altimeter setting not received, use Waco Rgnl altimeter setting increase all DA 31 feet and MDA 40 feet. DME/DME RNP-0.3 NA. Helicopter visibility reduction below ¾ SM NA.

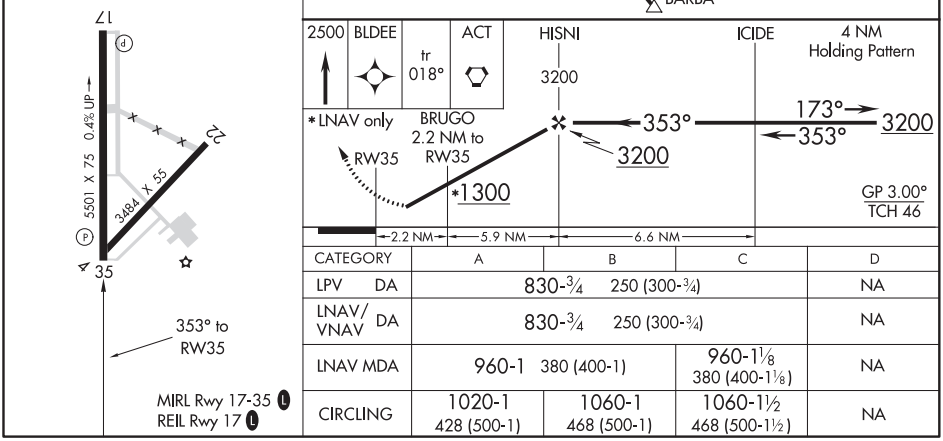
ASR

MISSED APPROACH: Climb to 2500 direct BLDEE and on track 018° to ACT VORTAC and hold.

AWOS-3PT	WACO APP CON ★	GCO	UNICOM
135.525	127.65 352.0	121.725	122.8 (CTAF) L



ELEV 592 | TDZE 580



CATEGORY	A	B	C	D
LPV DA	830-¾ 250 (300-¾)			NA
LNAV/VNAV DA	830-¾ 250 (300-¾)			NA
LNAV MDA	960-1 380 (400-1)		960-1⅛ 380 (400-1⅛)	NA
CIRCLING	1020-1 428 (500-1)	1060-1 468 (500-1)	1060-1½ 468 (500-1½)	NA

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

VOR RWY 17

MC GREGOR EXECUTIVE (PWG)

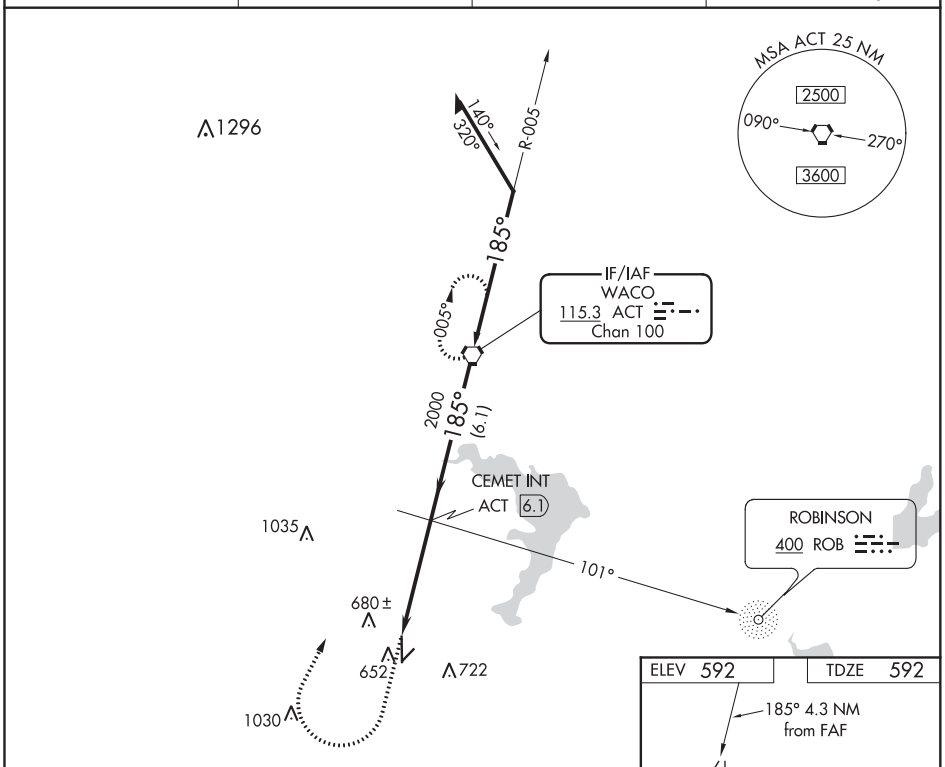
VORTAC ACT	APP CRS	Rwy ldg	5501
115.3	185°	TDZE	592
Chan 100		Apt Elev	592

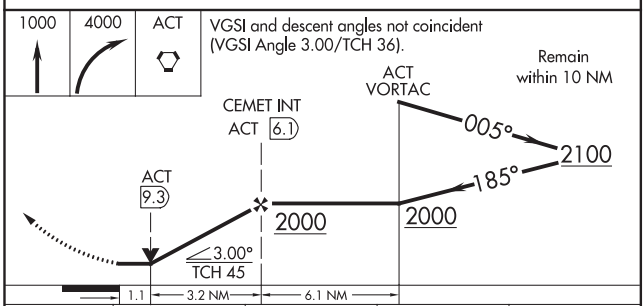
ADF or DME required.

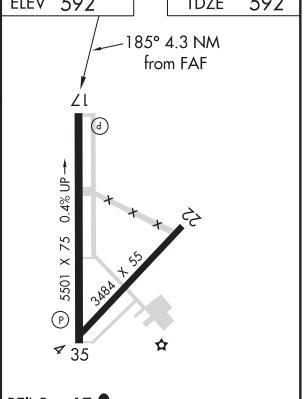
ASR

MISSED APPROACH: Climb to 1000 then climbing right turn to 4000 direct ACT VORTAC and hold, continue climb-in-hold to 4000.

AWOS-3PT	WACO APP CON *	GCO	UNICOM
135.525	127.65 352.0	121.725	122.8 (CTAF) L







REIL Rwy 17 L
MIRL Rwy 17-35 L

CATEGORY	A	B	C	D
S-17	980-1 388 (400-1)			NA
C CIRCLING	980-1 388 (400-1)	1060-1 468 (500-1)	1060-1½ 468 (500-1½)	NA

FAF to MAP 4.3 NM					
Knots	60	90	120	150	180
Min:Sec	4:18	2:52	2:09	1:43	1:26

SC-3, 25 FEB 2021 to 22 APR 2021
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WACO, TEXAS

AL-579 (FAA)

20030

ILS or LOC RWY 17L

TSTC WACO (CNW)

LOC I-CNW	APP CRS	Rwy ldg	8600
110.7	174°	TDZE	470
		Apt Elev	470

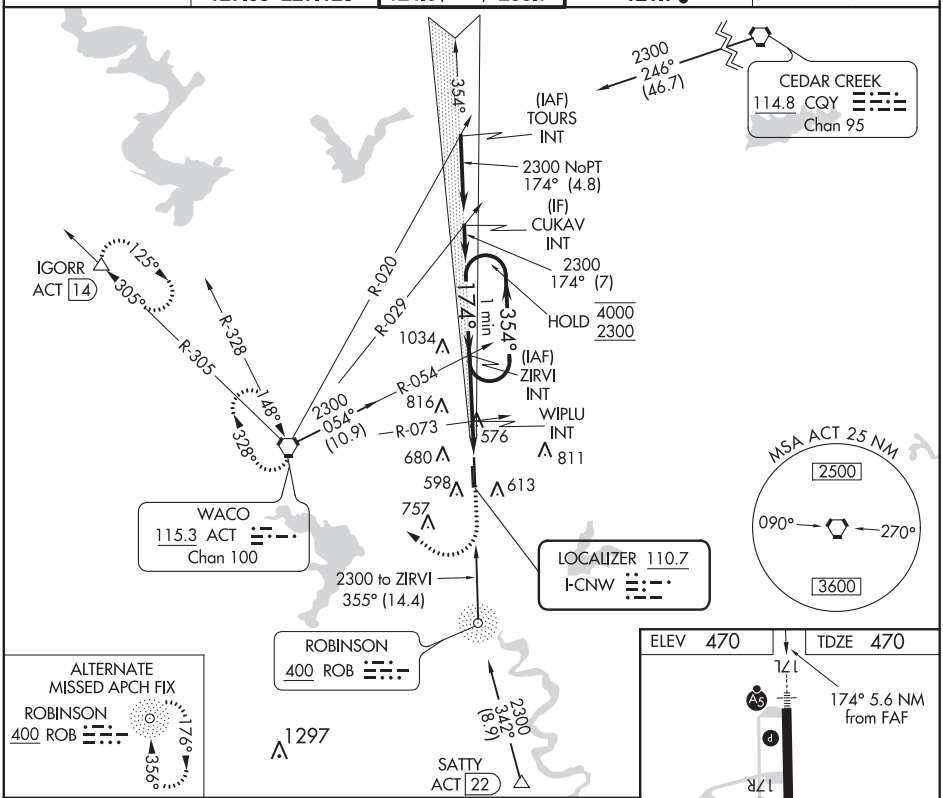
T A NA ASR

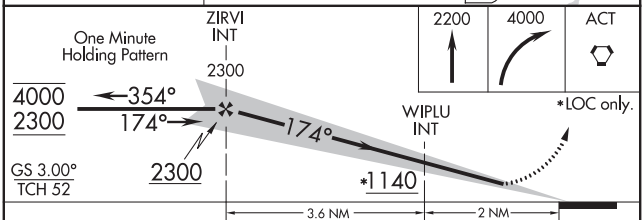
For inop ALS, increase S-ILS 17L Cat E visibility to ¾ SM, and S-LOC 17L Cat E to 1⅛ SM.

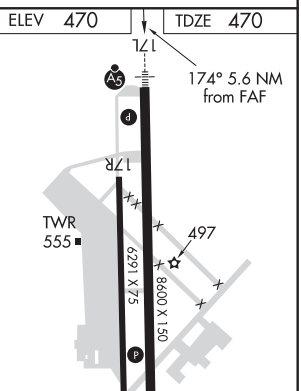
MALSR

MISSED APPROACH: Climb to 2200 then climbing right turn to 4000 direct ACT VORTAC and hold.
(TACAN aircraft continue on ACT VORTAC R-305 to IGORR /ACT 14 DME and hold SE, RT, 305° inbound)

AWOS-3	WACO APP CON ★	TSTC TOWER ★	GND CON	UNICOM
134.225	127.65 227.125	124.0 (CTAF) 255.7	121.7 L	122.95







CATEGORY	A	B	C	D	E
S-ILS 17L	670-½ 200 (200-½)				
S-LOC 17L	860-½ 390 (400-½)		860-⅝ 390 (400-⅝)		
C CIRCLING	940-1 470 (500-1)	1040-1 570 (600-1)	1040-1½ 570 (600-1½)	1120-2 650 (700-2)	1180-2½ 710 (800-2½)

FAF to MAP 5.6 NM

Knots	60	90	120	150	180
Min:Sec	5:36	3:44	2:48	2:14	1:52

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SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 73020 W17A	APP CRS 174°	Rwy ldg 8600 TDZE 470 Apt Elev 470

RNAV (GPS) RWY 17L
TSTC WACO (CNW)

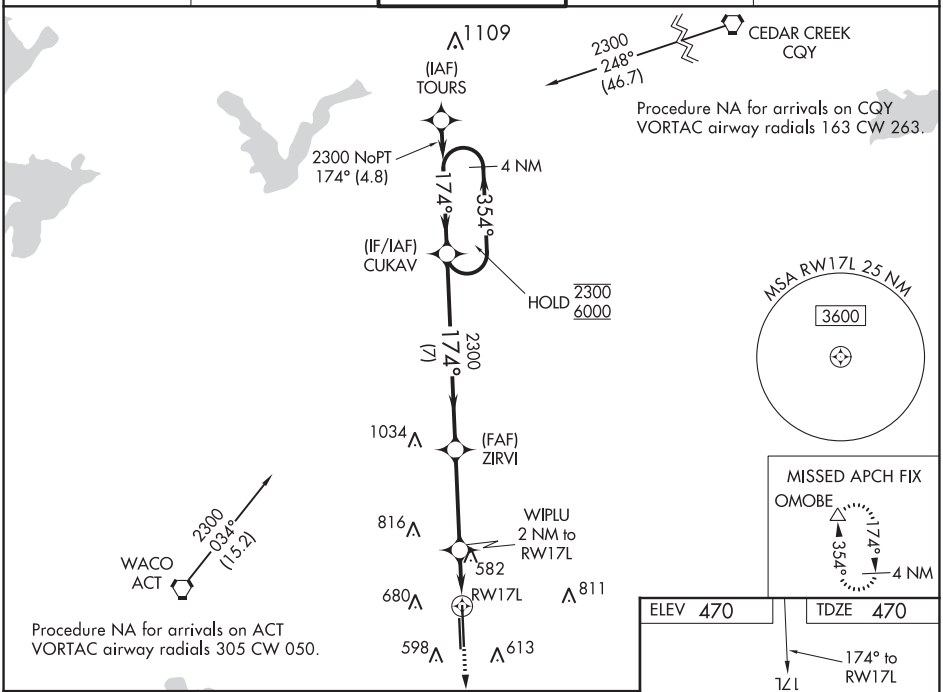
RNP APCH.

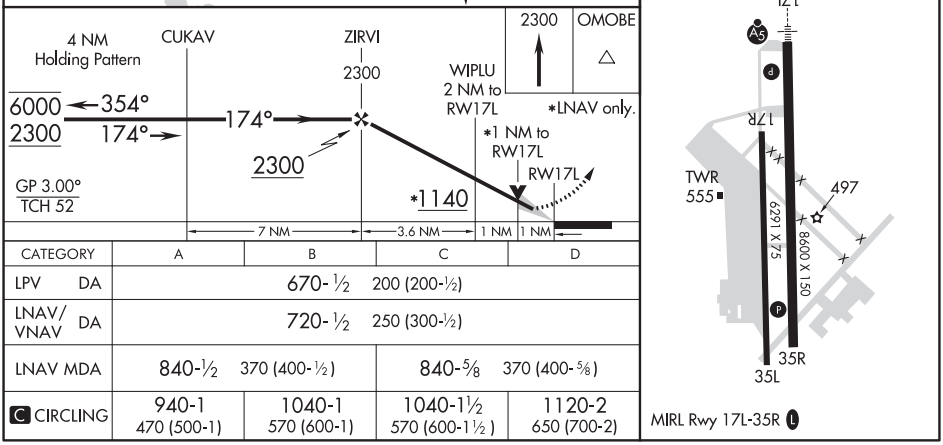
T A ASR — For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C. For inop ALS, increase LNAV/VNAV all Cats visibility to ¾ SM and LNAV Cats C/D visibility to 1 SM.

MALSR A5

MISSED APPROACH: Climb to 2300 direct OMOBE and hold.

AWOS-3	WACO APP CON ★	TSTC TOWER ★	GND CON	UNICOM
134.225	127.65 227.125	124.0 (CTAF) 255.7	121.7 L	122.95





CATEGORY	A	B	C	D
LPV DA	670-½ 200 (200-½)			
LNAV/VNAV DA	720-½ 250 (300-½)			
LNAV MDA	840-½ 370 (400-½)		840-⅝ 370 (400-⅝)	
C CIRCLING	940-1 470 (500-1)	1040-1 570 (600-1)	1040-1½ 570 (600-1½)	1120-2 650 (700-2)

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WACO, TEXAS | AL-579 (FAA) | 19339

RNAV (GPS) RWY 35R
TSTC WACO (CNW)

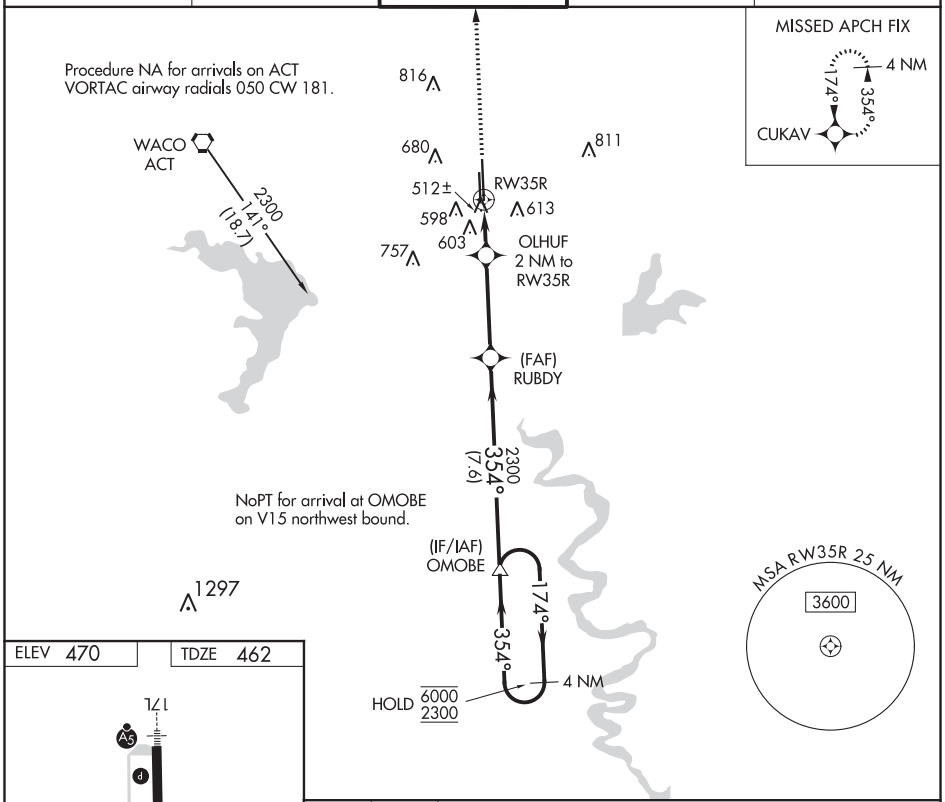
WAAS CH 82731 W35A	APP CRS 354°	Rwy ldg 8600 / TDZE 462 / Apt Elev 470

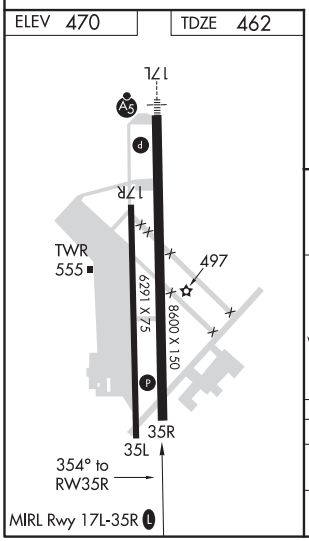
RNP APCH.

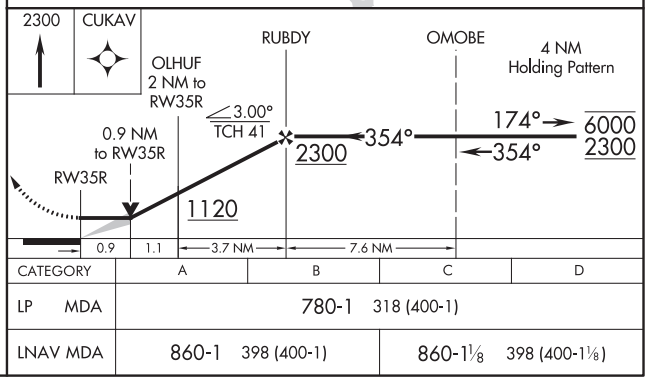
ASR

MISSED APPROACH: Climb to 2300 direct CUKAV and hold.

AWOS-3	WACO APP CON ★	TSTC TOWER ★	GND CON	UNICOM
134.225	127.65 227.125	124.0 (CTAF) 255.7	121.7 (L)	122.95







CATEGORY	A	B	C	D
LP MDA	780-1 318 (400-1)			
LNAV MDA	860-1 398 (400-1)		860-1⅛ 398 (400-1⅛)	

WACO, TEXAS
Amdt 2A 05DEC19

31°38′N-97°04′W

TSTC WACO (CNW)
RNAV (GPS) RWY 35R

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SC-3, 25 FEB 2021 to 22 APR 2021

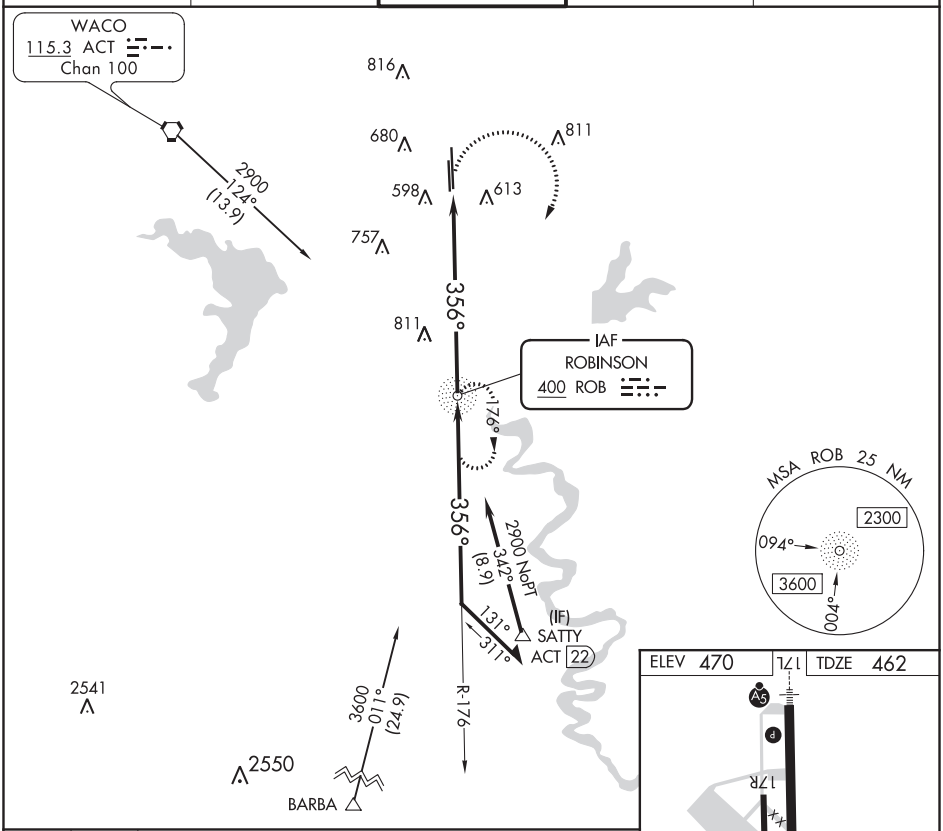
NDB ROB	APP CRS	Rwy ldg	8600
400	356°	TDZE	462
		Apt Elev	470

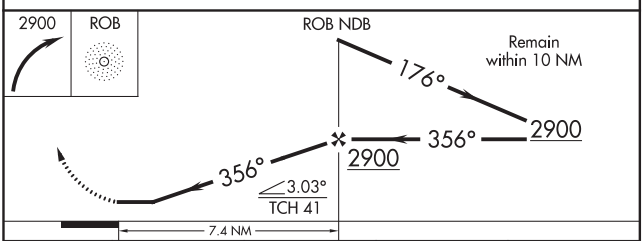
NDB RWY 35R
TSTC WACO (CNW)

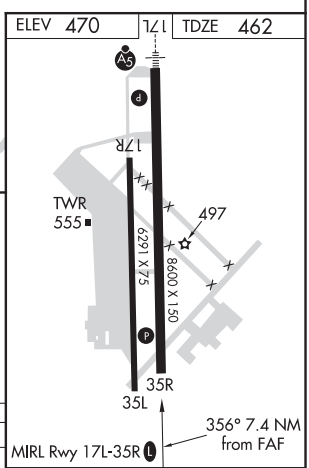
T
A
ASR

MISSED APPROACH: Climbing right turn to 2900 direct ROB NDB and hold.

AWOS-3	WACO APP CON ★	TSTC TOWER ★	GND CON	UNICOM
134.225	127.65 227.125	124.0 (CTAF) 255.7	121.7 L	122.95







CATEGORY	A	B	C	D
S-35R	1200-1	738 (800-1)	1200-2	738 (800-2)
C CIRCLING	1200-1	730 (800-1)	1200-2 730 (800-2)	1200-2¼ 730 (800-2¼)

FAF to MAP 7.4 NM					
Knots	60	90	120	150	180
Min:Sec	7:24	4:56	3:42	2:58	2:28

SC-3, 25 FEB 2021 to 22 APR 2021

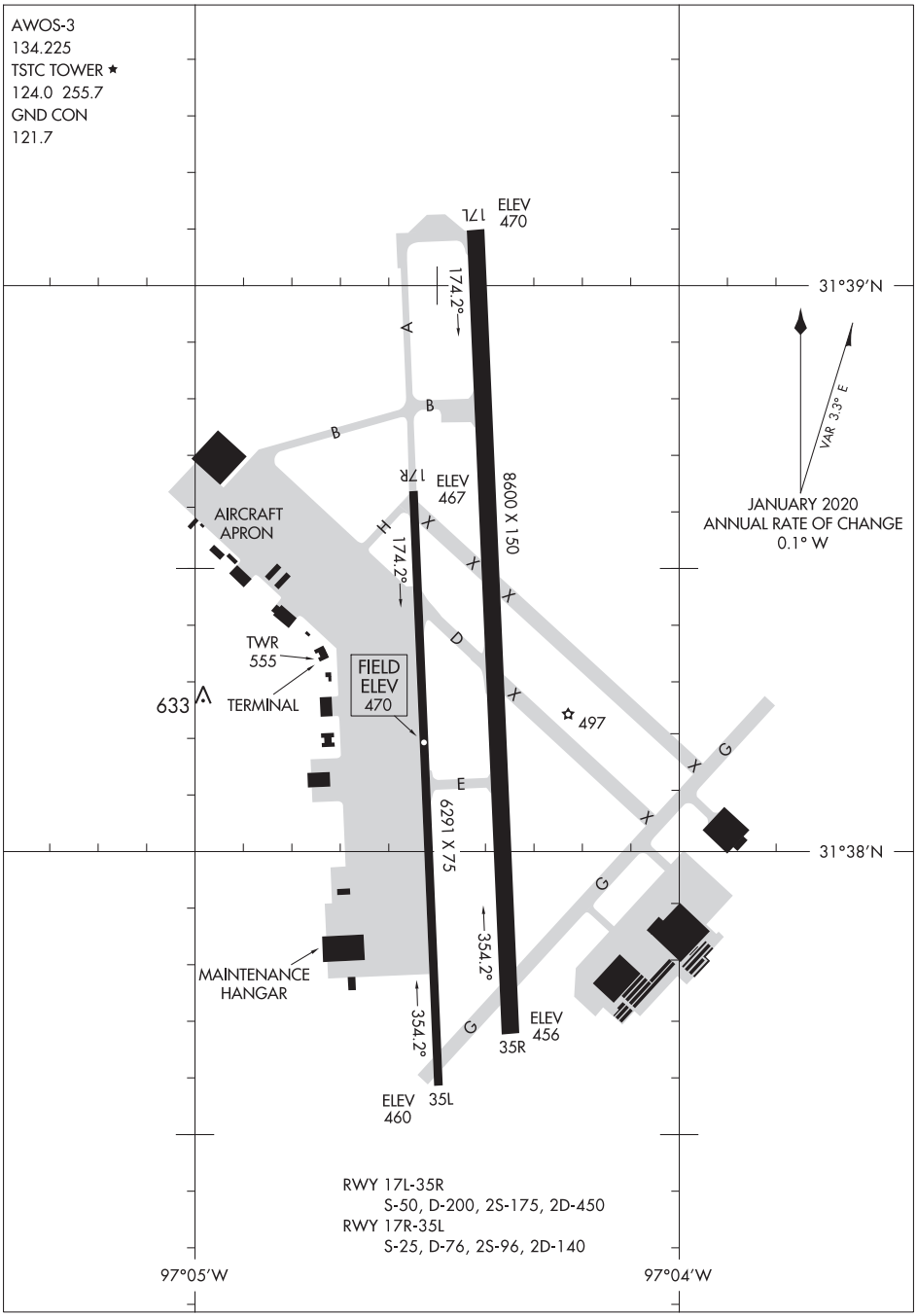
SC-3, 25 FEB 2021 to 22 APR 2021

20086

AIRPORT DIAGRAM

AL-579 (FAA)

TSTC WACO (CNW)
WACO, TEXAS



SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

AIRPORT DIAGRAM
20086
WACO, TEXAS
TSTC WACO (CNW)

ILS or LOC RWY 19
WACO RGNL (ACT)

LOC/DME I-ACT	APP CRS	Rwy ldg	6605
109.7	187°	TDZE	505
Chan 34		Apt Elev	516

DME required.

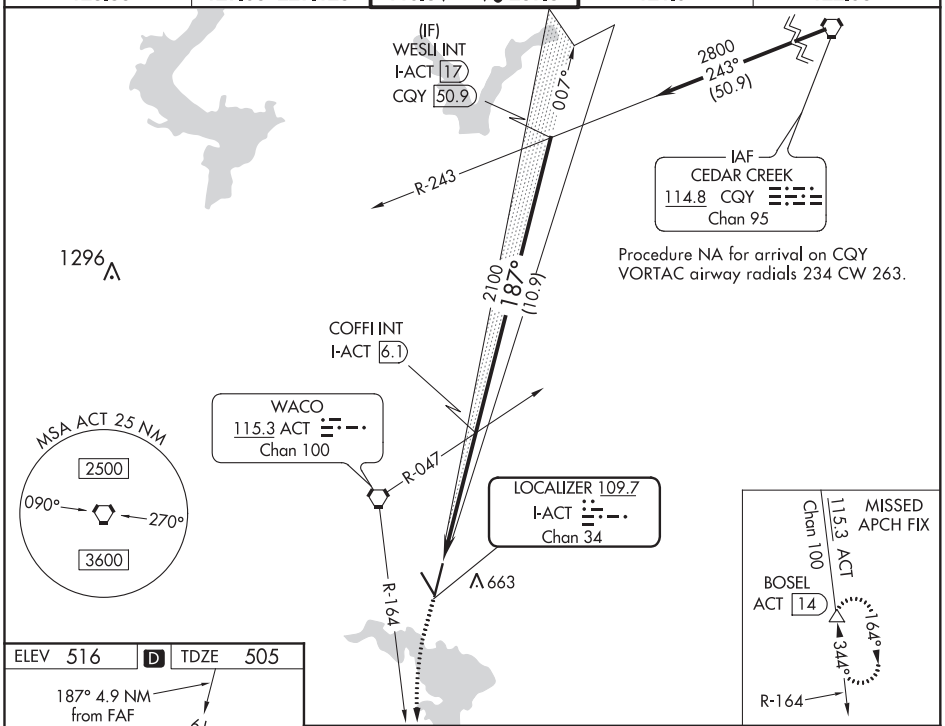
T A ASR

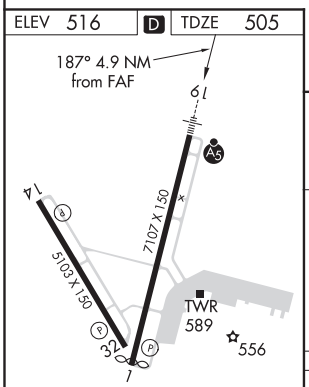
** RVR 1800 authorized with use of FD or AP or HUD to DA.

MALSR

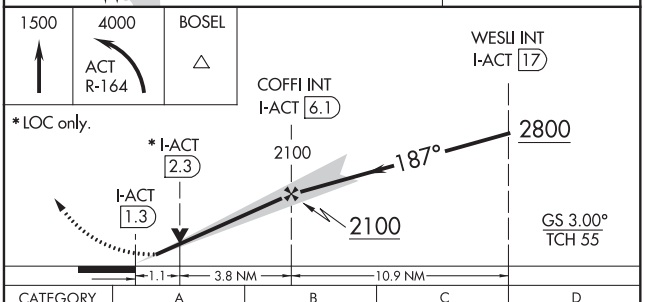
MISSED APPROACH: Climb to 1500 then climbing left turn to 4000 on ACT VORTAC R-164 to BOSEL 14 DME and hold, continue climb-in-hold to 4000.

ATIS	WACO APP CON ★	WACO TOWER ★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95





FAF to MAP 4.9 NM					
Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38



CATEGORY	A	B	C	D
S-ILS 19**	705/24 200 (200-½)			
S-LOC 19	900/24 395 (400-½)		900/35 395 (400-⅝)	
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

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WAAS CH 65919 W01A	APP CRS 007°	Rwy ldg 7005 TDZE 511 Apt Elev 516

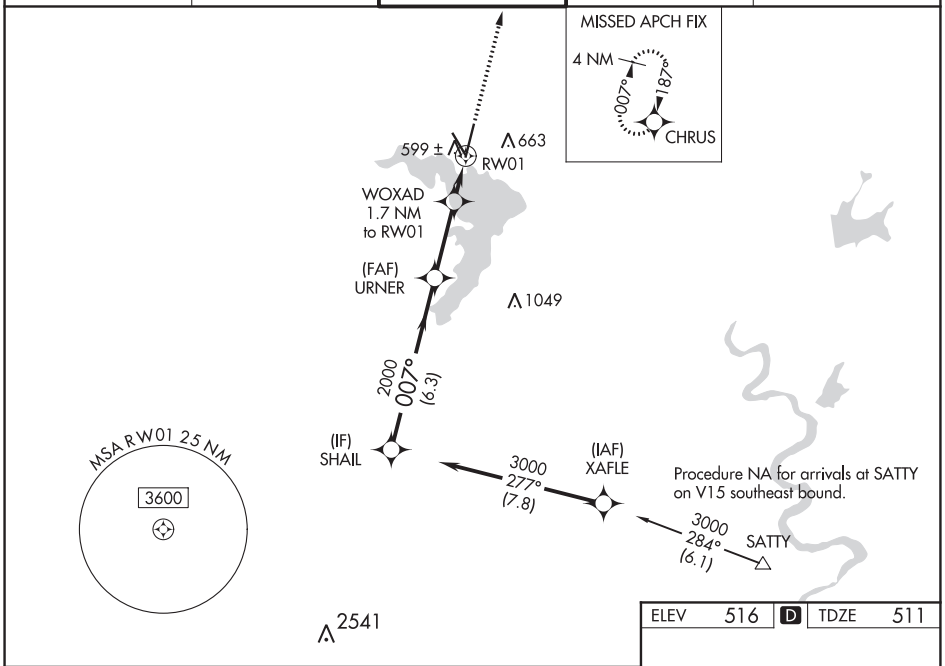
RNAV (GPS) RWY 1
WACO RGNL (ACT)

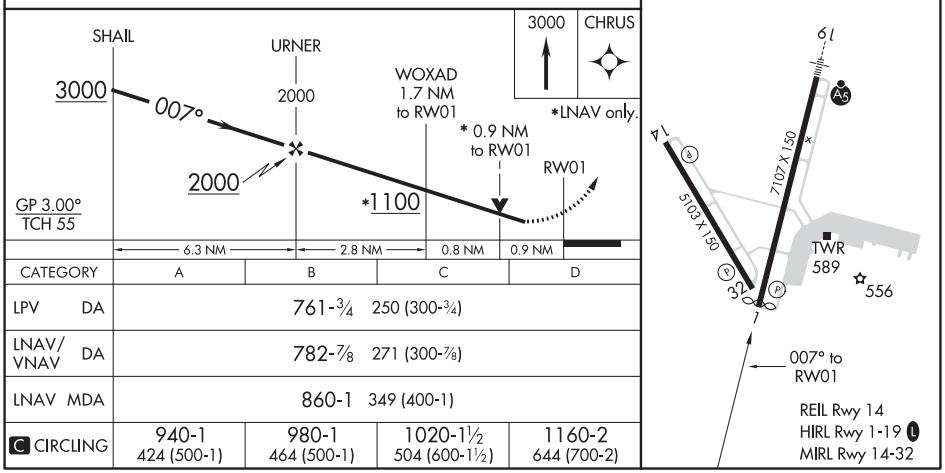
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -7°C (19°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McGregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LPV all Cats and LNAV/VNAV all Cats visibility ⅛ mile and Circling Cat D ¼ mile. Baro-VNAV and VDP NA with McGregor Executive altimeter setting. Helicopter visibility reduction below ¾ SM NA.

ASR

MISSED APPROACH: Climb to 3000 direct CHRUS and hold.

ATIS	WACO APP CON ★	WACO TOWER ★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	761-¾ 250 (300-¾)			
LNAV/VNAV DA	782-⅞ 271 (300-⅞)			
LNAV MDA	860-1 349 (400-1)			
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

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RNAV (GPS) RWY 14
WACO RGNL (ACT)

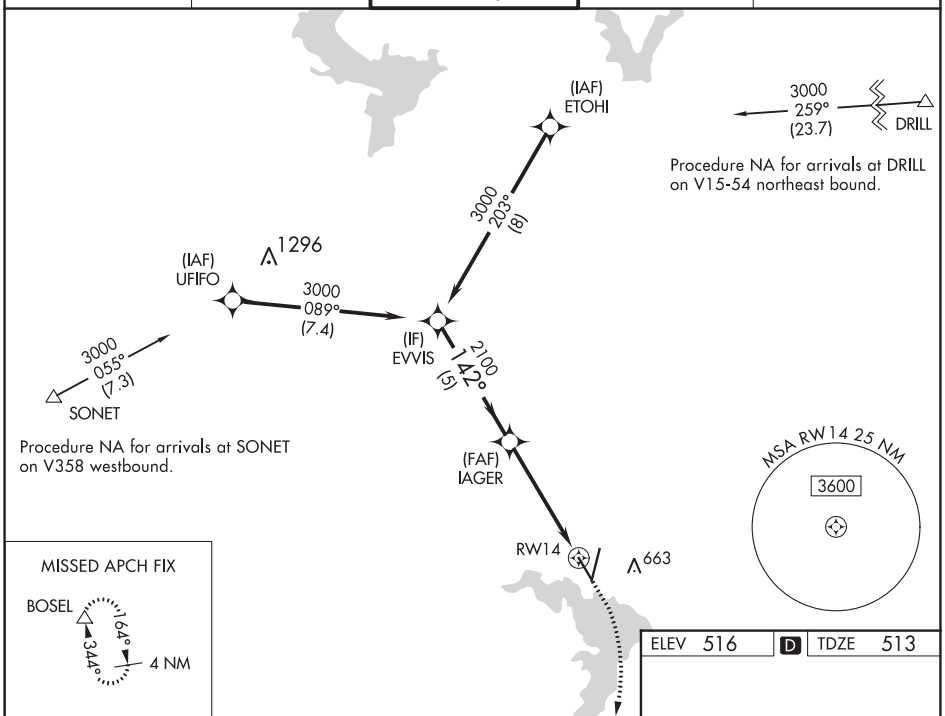
WAAS CH 56520 W14A	APP CRS 142°	Rwy ldg 5103 TDZE 513 Apt Elev 516

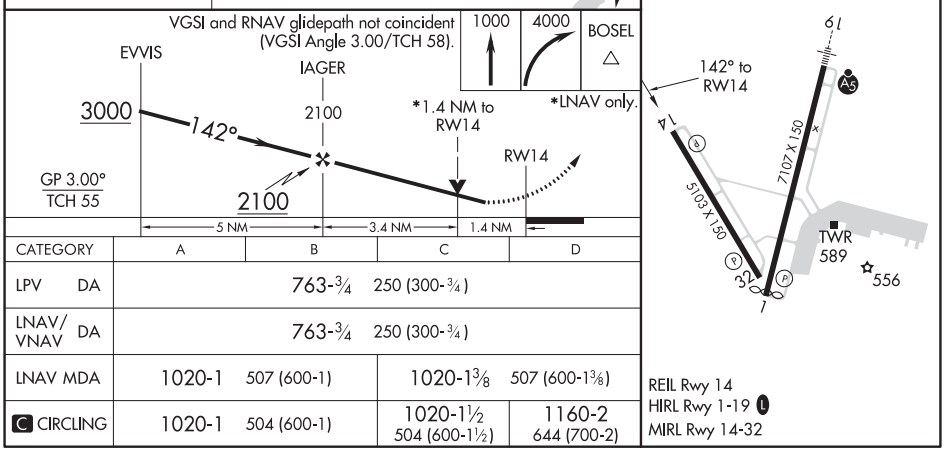
RNP APCH.

T A ASR — Rwy 14 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, procedure NA below -8°C or above 54°C.

MISSED APPROACH: Climb to1000 then climbing right turn to 4000 direct BOSEL and hold, continue climb-in-hold to 4000.

ATIS	WACO APP CON *	WACO TOWER *	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
LPV DA	763-¾ 250 (300-¾)			
LNAV/VNAV DA	763-¾ 250 (300-¾)			
LNAV MDA	1020-1 507 (600-1)		1020-1⅜ 507 (600-1⅜)	
C CIRCLING	1020-1 504 (600-1)		1020-1½ 504 (600-1½)	1160-2 644 (700-2)

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20030

RNAV (GPS) RWY 19
WACO RGNL (ACT)

WAAS CH 82119 W19A	APP CRS 187°	Rwy ldg 6605 TDZE 505 Apt Elev 516

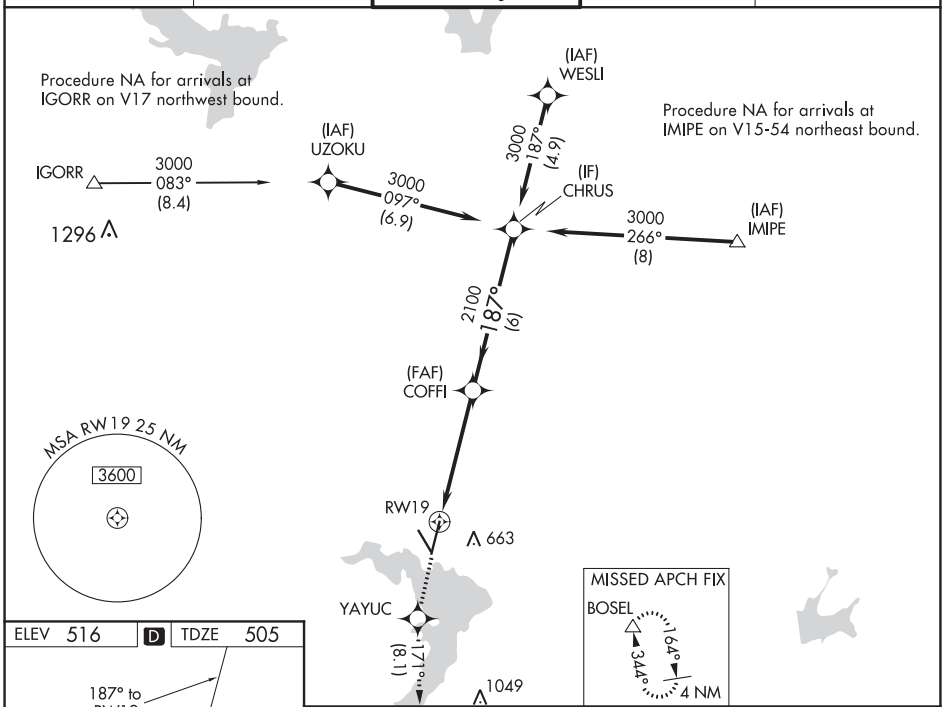
RNP APCH.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -8°C or above 54°C. For inop ALS, increase LNAV/VNAV visibility all Cats to RVR 4000.
ASR **RVR 1800 authorized with use of FD or AP or HUD to DA.

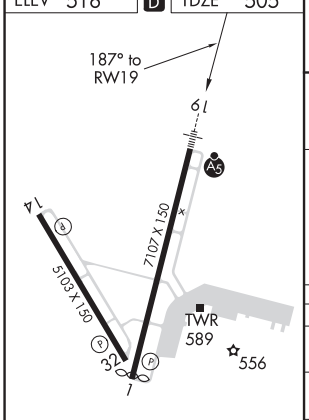
MALSR

MISSED APPROACH: Climb to 4000 direct YAYUC and on track 171° to BOSEL and hold, continue climb-in-hold to 4000.

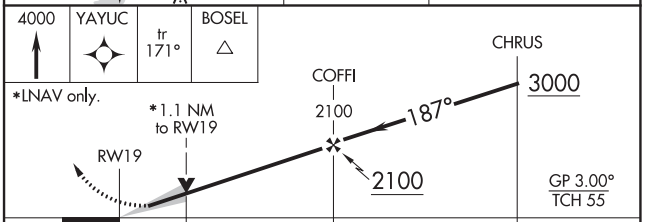
ATIS	WACO APP CON ★	WACO TOWER ★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95



ELEV 516	D	TDZE 505



REIL Rwy 14
HIRL Rwy 1-19 L
MIRL Rwy 14-32



CATEGORY	A	B	C	D
LPV DA**	705/24 200 (200-½)			
LNAV/VNAV DA	755/24 250 (300-½)			
LNAV MDA	900/24 395 (400-½)		900/35 395 (400-⅝)	
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

WAAS CH 69420 W32A	APP CRS 322°	Rwy ldg 5103 TDZE 516 Apt Elev 516

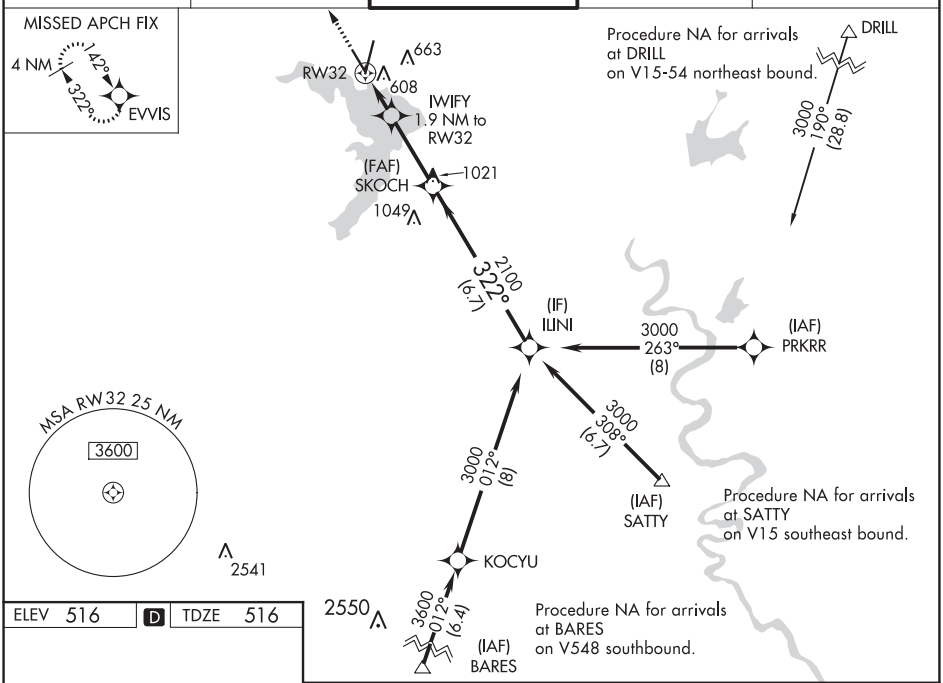
RNAV (GPS) RWY 32
WACO RGNL (ACT)

T A ASR

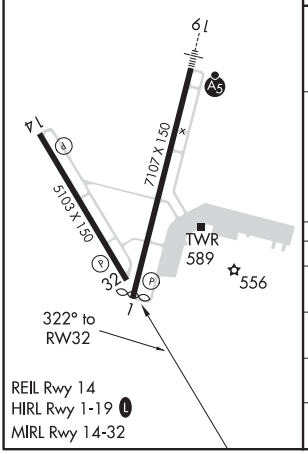
DME/DME RNP-0.3 NA. When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all DA 31 feet and all MDA 40 feet; increase LPV and LNAV/VNAV all Cats and LNAV Cats C/D visibility ⅛ mile and Circling Cat D visibility ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -13°C (9°F) or above 54°C (130°F). Baro-VNAV NA when using Mc Gregor Executive altimeter setting. VDP NA with Mc Gregor Executive altimeter setting.

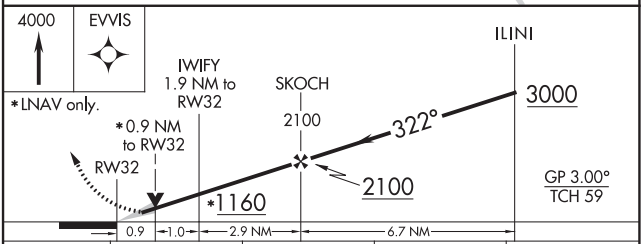
MISSED APPROACH: Climb to 4000 direct EVVIS and hold, continue climb-in-hold to 4000.

ATIS	WACO APP CON★	WACO TOWER★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95



ELEV 516 D TDZE 516





CATEGORY	A	B	C	D
LPV DA	766-¾ 250 (300-¾)			
LNAV/VNAV DA	773-¾ 257 (300-¾)			
LNAV MDA	860-1 344 (400-1)			
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

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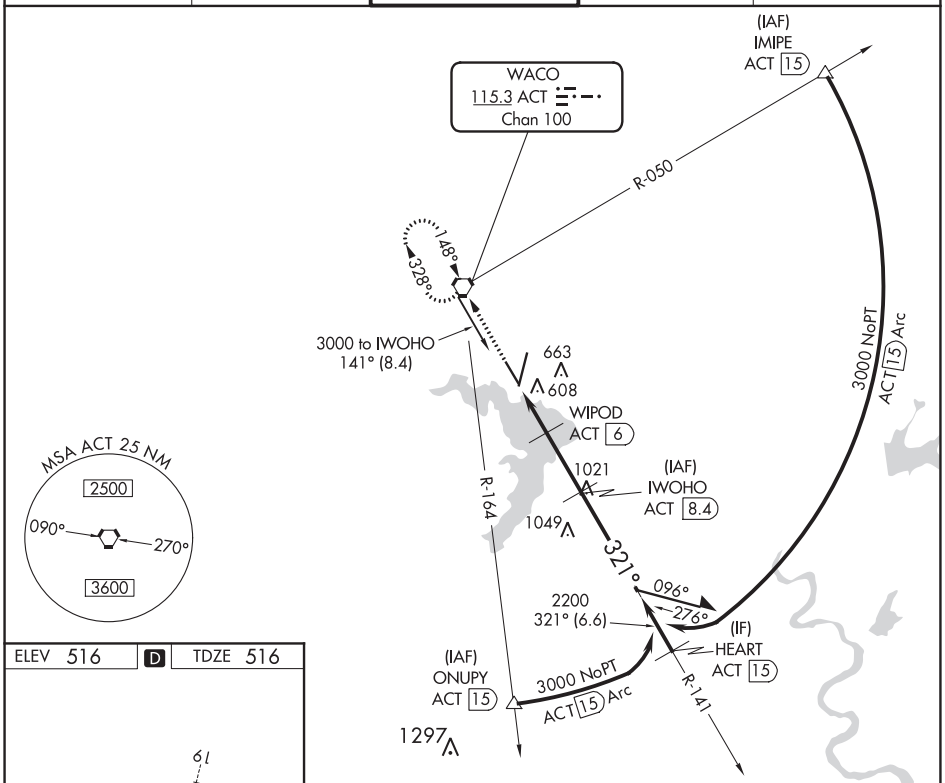
VOR/DME RWY 32
WACO RGNL (ACT)

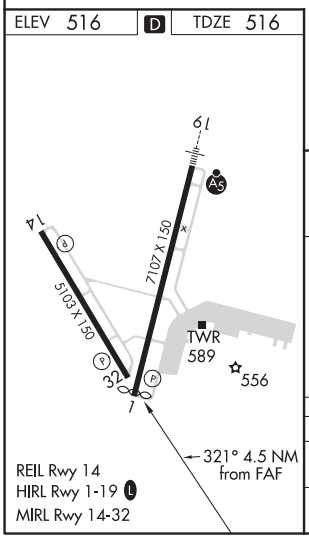
VORTAC ACT	APP CRS	Rwy ldg	5103
115.3	321°	TDZE	516
Chan 100		Apt Elev	516

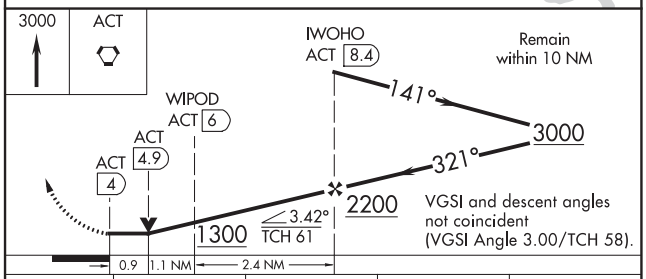
T A ASR — VDP NA with Mc Gregor Executive altimeter setting. When local altimeter setting not received use Mc Gregor Executive altimeter setting and increase all MDA 40 feet; increase S-32 Cats C/D visibility ⅛ mile and Circling Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3000 direct ACT VORTAC and hold, continue climb-in-hold to 3000.

ATIS	WACO APP CON ★	WACO TOWER ★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95







CATEGORY	A	B	C	D
S-32	860-1 344 (400-1)			
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

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VOR RWY 14
WACO RGNL (ACT)

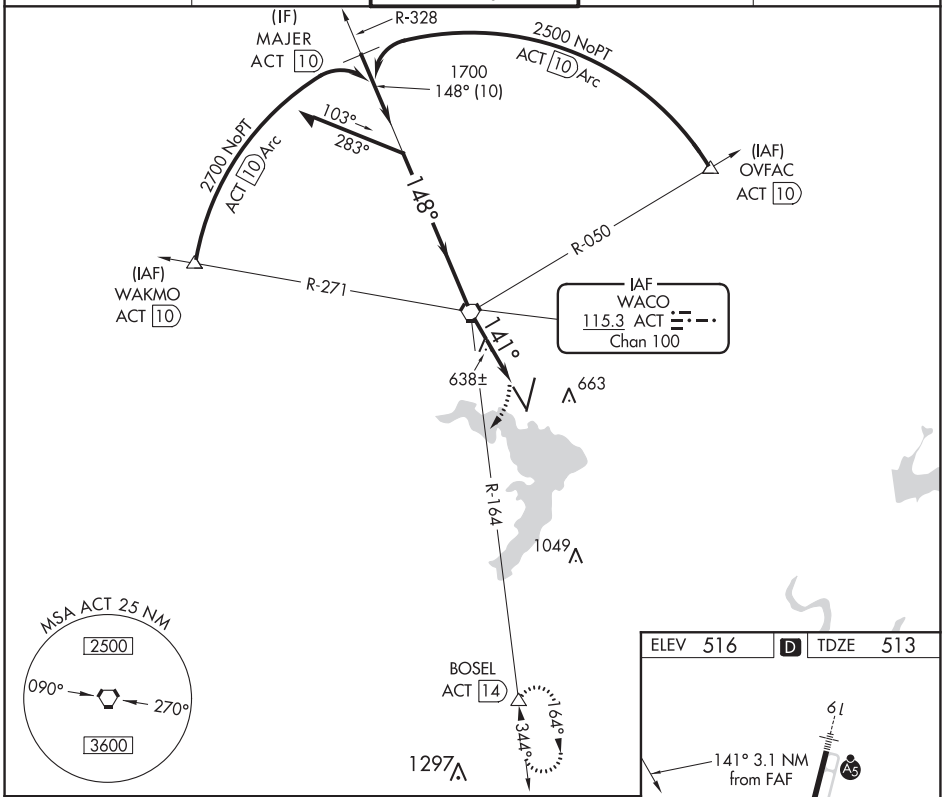
VORTAC ACT	APP CRS	Rwy ldg 5103
115.3	141°	TDZE 513
Chan 100		Apt Elev 516

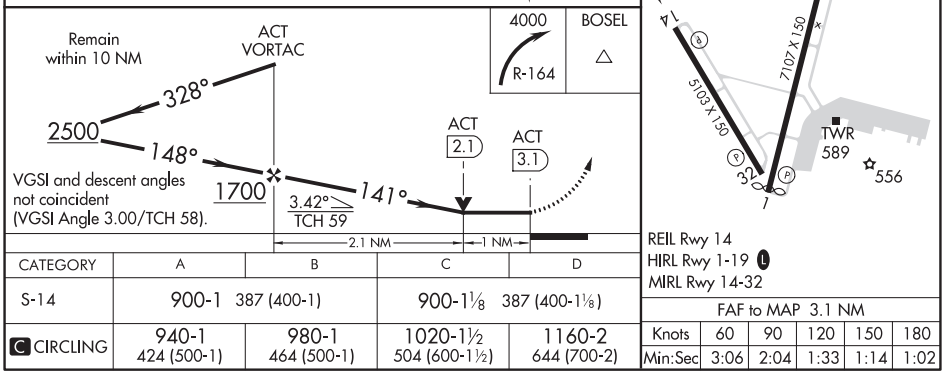
DME required.

ASR: Rwy 14 helicopter visibility reduction below ¾ SM NA. VDP NA with McGregor Executive altimeter setting. When local altimeter setting not received, use McGregor Executive altimeter setting and increase all MDAs 40 feet; and increase S-14 Cat C/D visibility ⅛ SM and Circling Cat D visibility ¼ SM.

MISSED APPROACH: Climbing right turn to 4000 on ACT VORTAC R-164 to BOSEL/ACT 14.00 DME and hold, Continue climb-in-hold to 4000.

ATIS	WACO APP CON ★	WACO TOWER ★	GND CON	UNICOM
123.85	127.65 227.125	119.3 (CTAF) L 257.8	121.9	122.95





CATEGORY	A	B	C	D
S-14	900-1 387 (400-1)		900-1⅛ 387 (400-1⅛)	
C CIRCLING	940-1 424 (500-1)	980-1 464 (500-1)	1020-1½ 504 (600-1½)	1160-2 644 (700-2)

FAF to MAP 3.1 NM

Knots	60	90	120	150	180
Min:Sec	3:06	2:04	1:33	1:14	1:02

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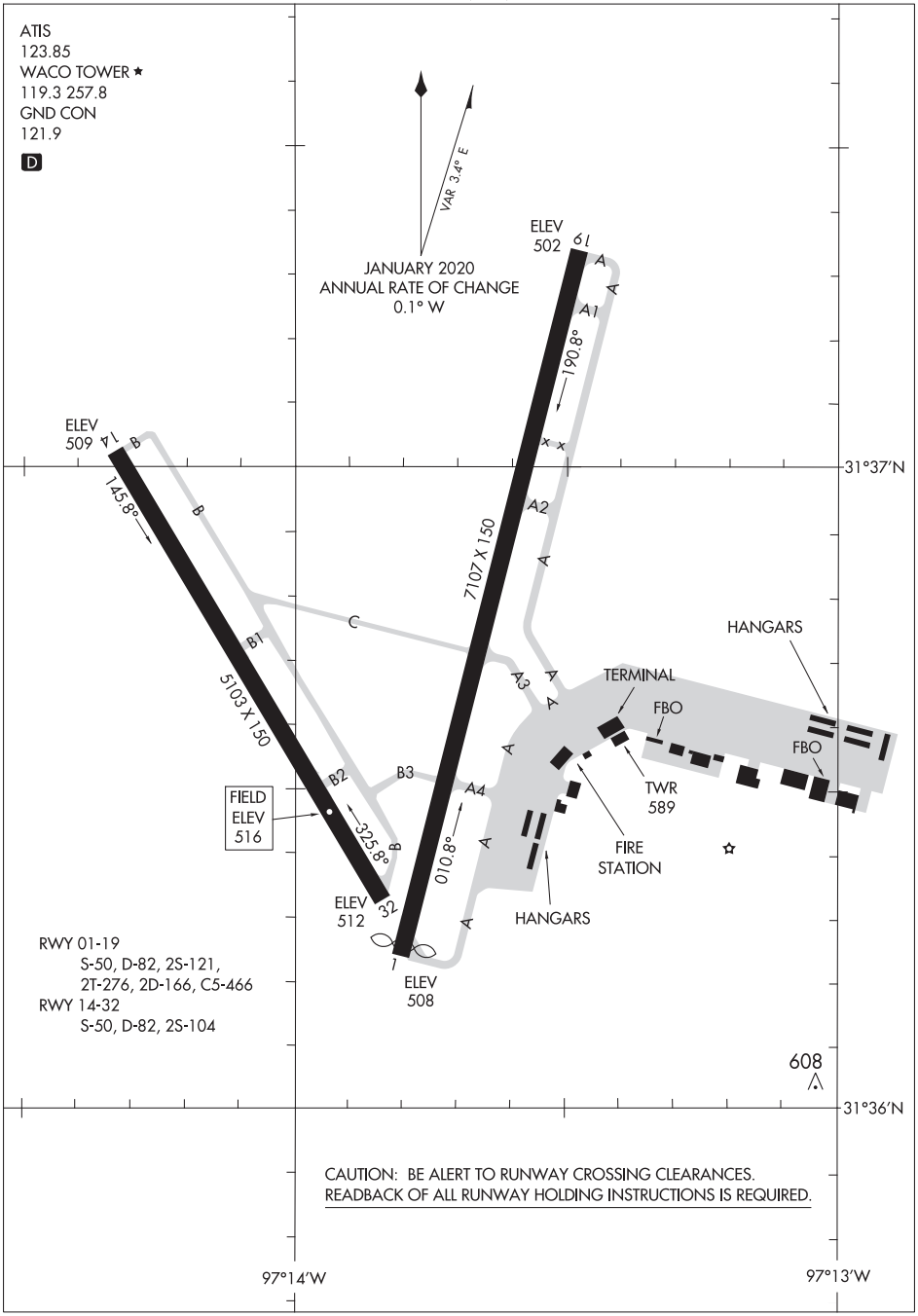
AIRPORT DIAGRAM

AL-439 (FAA)

WACO RGNL (ACT)
WACO, TEXAS



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AIRPORT DIAGRAM
20086
WACO, TEXAS
WACO RGNL (ACT)

RNAV (GPS) RWY 14
MID VALLEY (TXW)

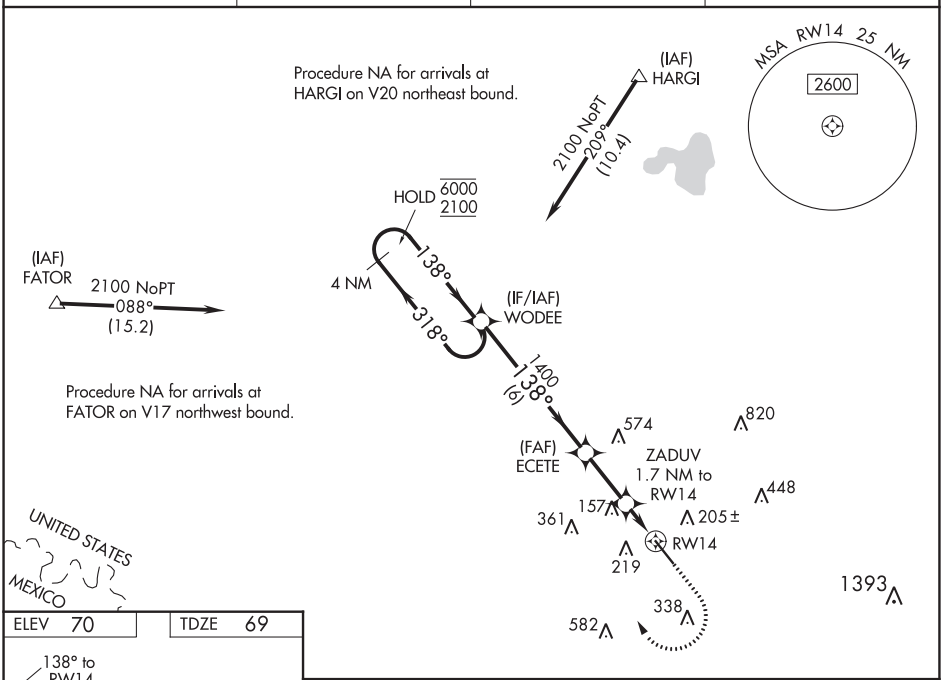
WAAS CH 70341 W14A	APP CRS 138°	Rwy ldg 6002 TDZE 69 Apt Elev 70

RNP APCH.

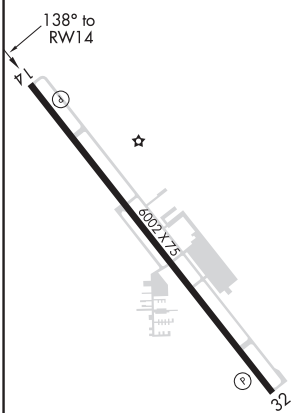
Rwy 14 helicopter visibility reduction below ¾ SM NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C or above 54°C.

MISSED APPROACH: Climb to 900 then climbing right turn to 2100 direct WODEE and hold.

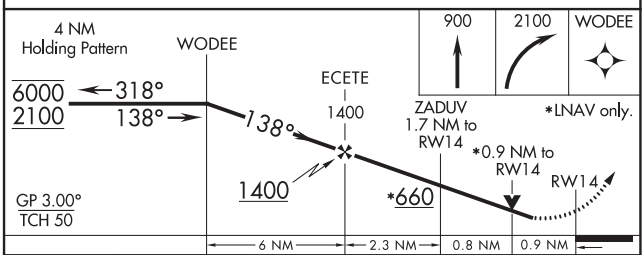
AWOS-3	VALLEY APP CON	CLNC DEL	UNICOM
118.575	121.0 284.7	125.95	122.8 (CTAF) L



ELEV 70	TDZE 69



MIRL Rwy 14-32 L
REIL Rwy 32 L



CATEGORY	A	B	C	D
LPV DA	319-¾ 250 (300-¾)			
LNAV/VNAV DA	331-⅞ 262 (300-⅞)			
LNAV MDA	420-1 351 (400-1)			
C CIRCLING	620-1 550 (600-1)		700-1¾ 630 (700-1¾)	940-2¾ 870 (900-2¾)

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WESLACO, TEXAS

AL-6930 (FAA)

20254

VOR-A

MID VALLEY (TXW)

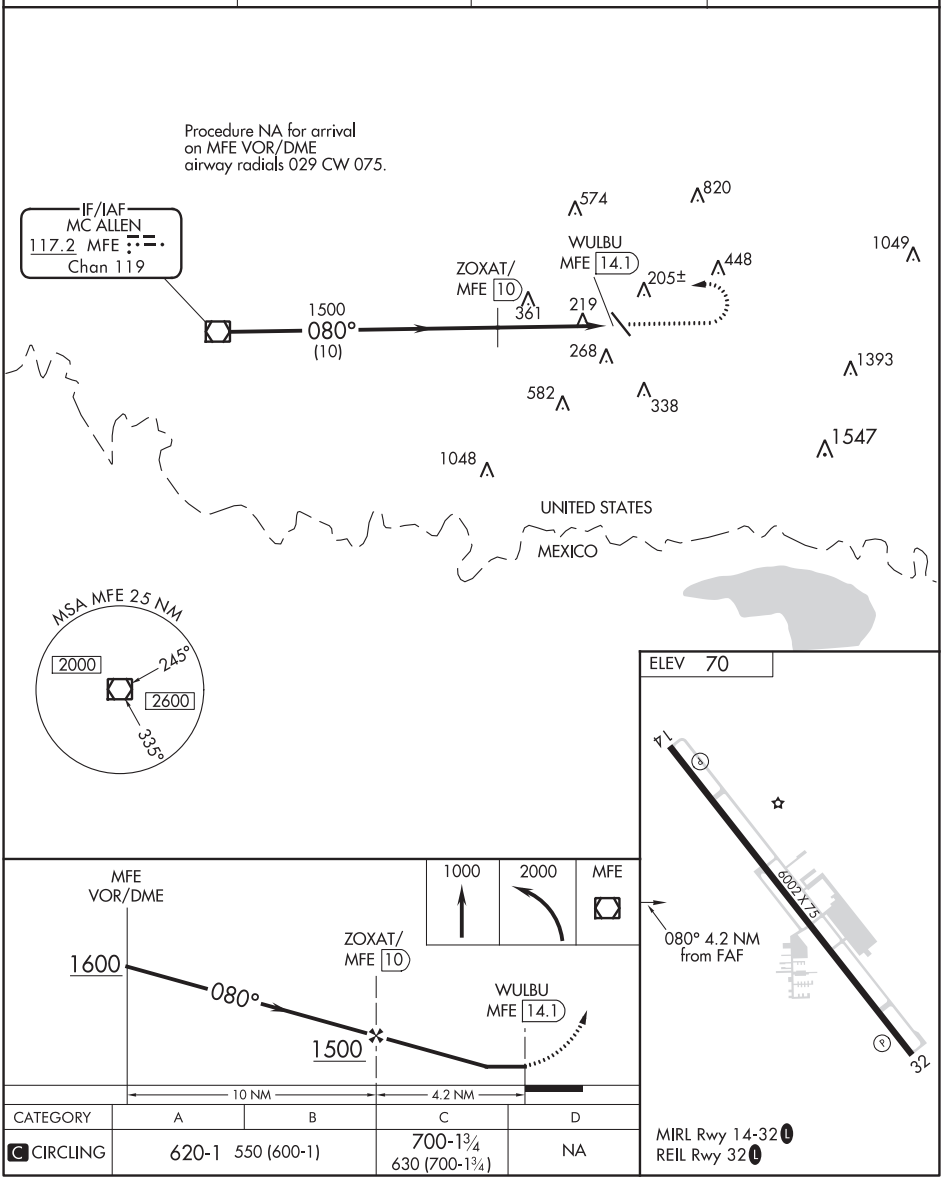
VOR/DME MFE	APP CRS	Rwy ldg	N/A
117.2	080°	TDZE	N/A
Chan 119		Apt Elev	70

DME required.

When local altimeter not received, use McAllen altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct MFE VOR/DME.

AWOS-3	VALLEY APP CON	CLNC DEL	UNICOM
118.575	121.0 284.7	125.95	122.8 (CTAF) L



CATEGORY	A	B	C	D
C CIRCLING	620-1 550 (600-1)		700-1¾ 630 (700-1¾)	NA

MIRL Rwy 14-32 L
REIL Rwy 32 L

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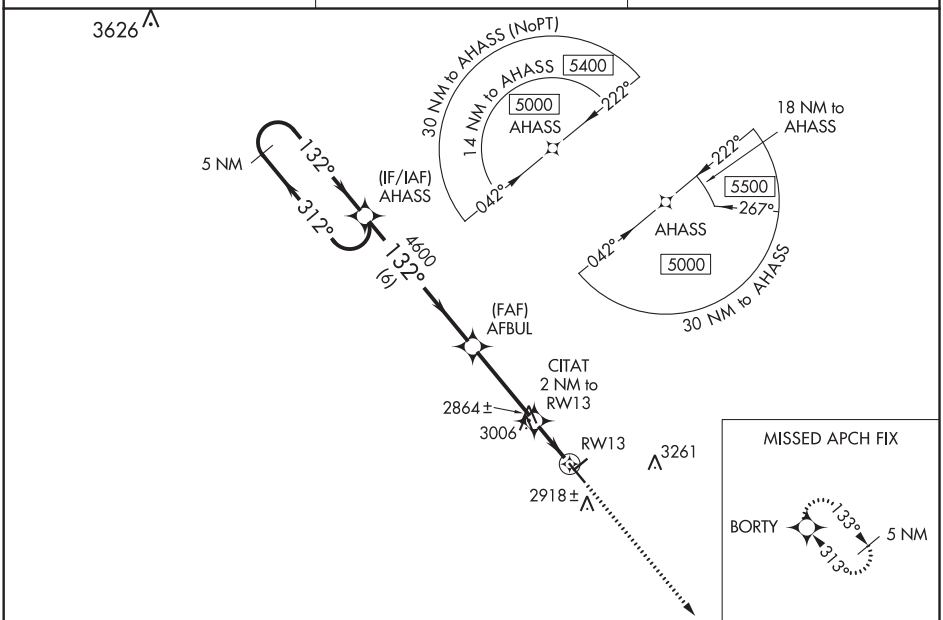
WAAS CH 93831 W13A	APP CRS 132°	Rwy ldg 5003 TDZE 2822 Apt Elev 2822

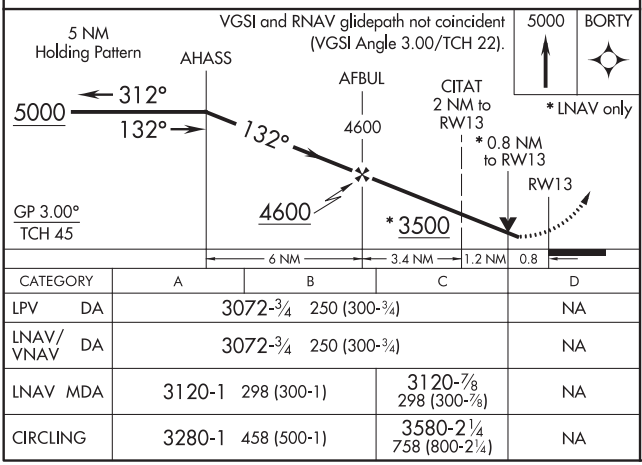
RNAV (GPS) RWY 13
WINKLER COUNTY (INK)

Baro-VNAV NA when using Pecos altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. VDP NA with Pecos altimeter setting. Helicopter visibility reduction below ¾ SM NA. When local altimeter setting not received, use Pecos altimeter setting and increase all DA 95 feet and all MDA 100 feet. Increase LPV and LNAV/VNAV all Cats visibility ⅜ mile, LNAV and Circling Cat C visibility ¼ mile.

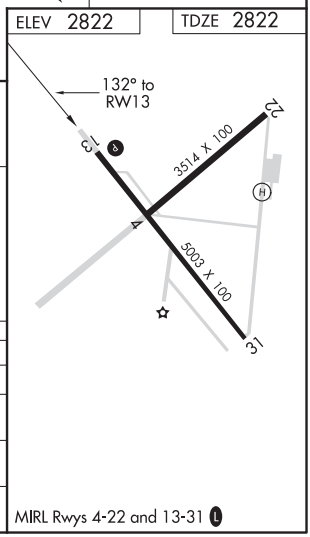
MISSED APPROACH: Climb to 5000 direct BORTY and hold.

ASOS	FORT WORTH CENTER	UNICOM
118.325	133.1 298.95	123.0 (CTAF) L





CATEGORY	A	B	C	D
LPV DA	3072-¾ 250 (300-¾)			NA
LNAV/VNAV DA	3072-¾ 250 (300-¾)			NA
LNAV MDA	3120-1 298 (300-1)		3120-⅞ 298 (300-⅞)	NA
CIRCLING	3280-1 458 (500-1)		3580-2¼ 758 (800-2¼)	NA



MIRL Rwys 4-22 and 13-31 L

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WINK, TEXAS

AL-461 (FAA)

21056

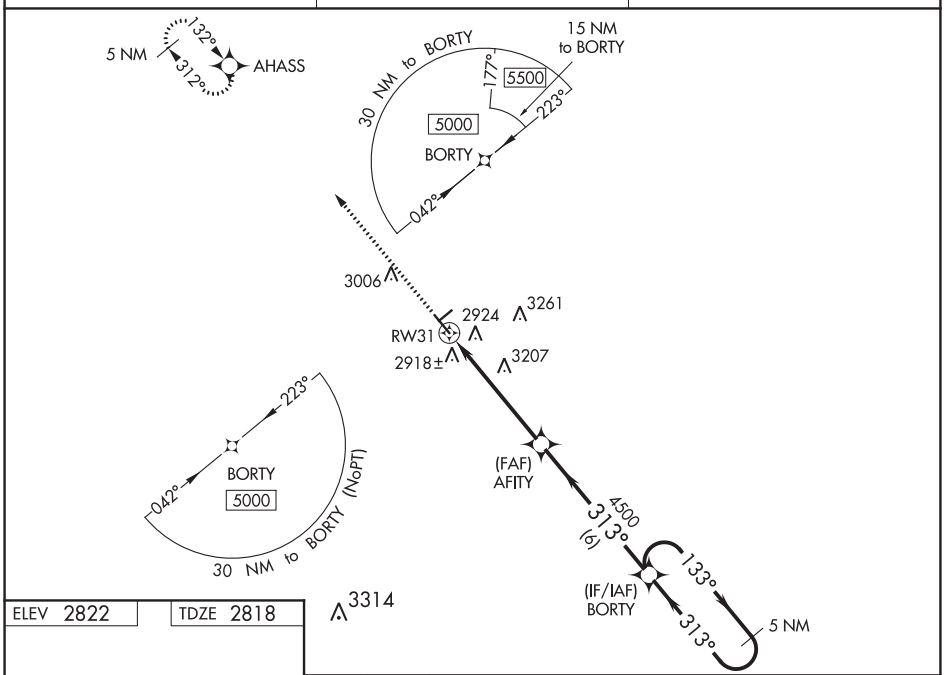
RNAV (GPS) RWY 31
WINKLER COUNTY (INK)

WAAS CH 56233 W31A	APP CRS 313°	Rwy ldg 5003 TDZE 2818 Apt Elev 2822

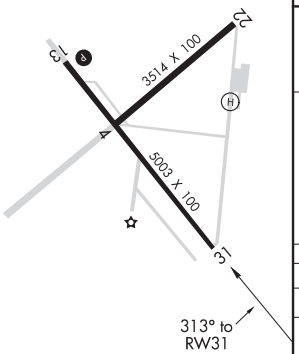
Baro-VNAV NA when using Pecos altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. VDP NA with Pecos altimeter setting. When local altimeter setting not received, use Pecos altimeter setting and increase all DA 95 feet and all MDA 100 feet. Increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ⅜ mile, LNAV Cat B visibility ¼ mile, LNAV Cat C visibility ½ mile and Circling Cats B and C visibility ¼ mile.

MISSED APPROACH: Climb to 5000 direct AHASS and hold.

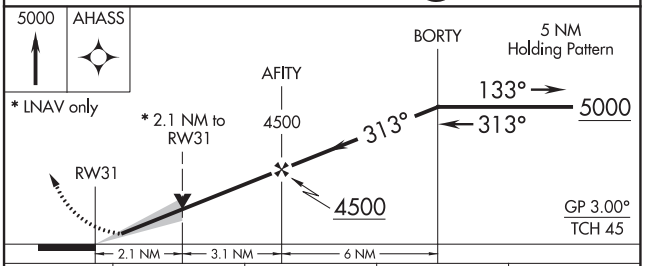
ASOS	FORT WORTH CENTER	UNICOM
118.325	133.1 298.95	123.0 (CTAF) L



ELEV 2822 | TDZE 2818



MIRL Rwys 4-22 and 13-31 L



CATEGORY	A	B	C	D
LPV DA	3018-¾ 200 (200-¾)			NA
LNAV/VNAV DA	3130-1 312 (400-1)			NA
LNAV MDA	3520-1 702 (700-1)		3520-2 702 (700-2)	NA
CIRCLING	3520-1 698 (700-1)		3580-2¼ 758 (800-2¼)	NA

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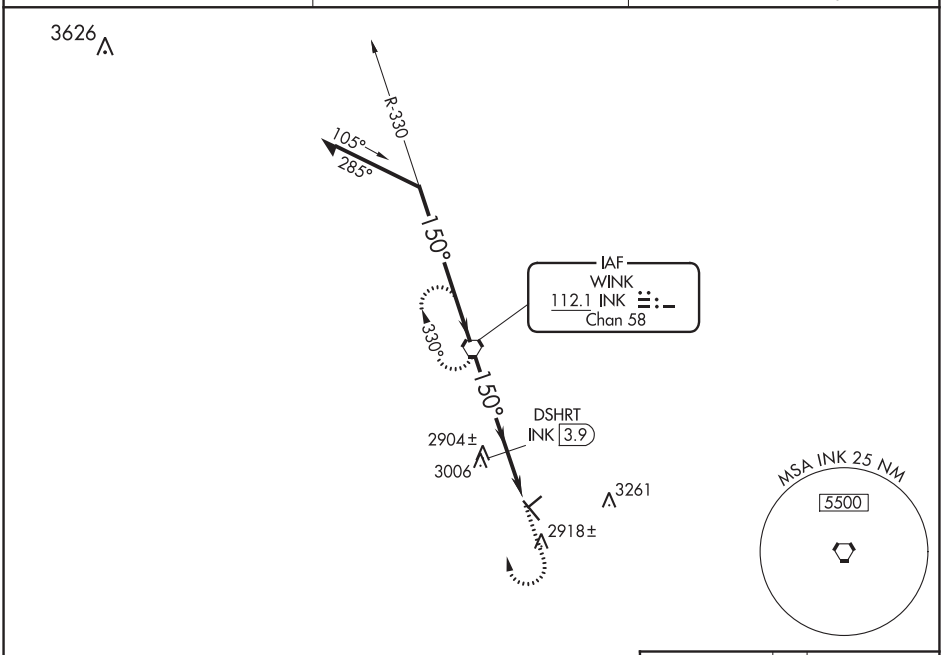
VOR RWY 13
WINKLER COUNTY (INK)

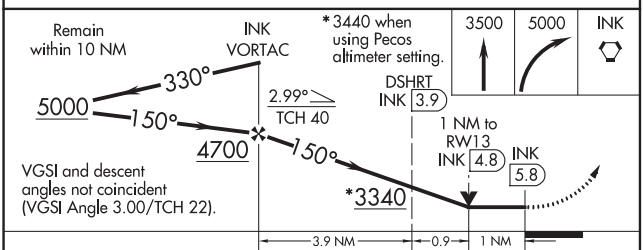
VORTAC INK	APP CRS	Rwy ldg	5003
112.1	150°	TDZE	2822
Chan 58		Apt Elev	2822

When local altimeter setting not received, use Pecos altimeter setting and increase all MDAs 100 feet and Cat C visibility ¼ mile and increase DSHRT Fix: all MDA 100 feet and S-13 Cat C visibility ¼ mile. VDP NA when using Pecos altimeter setting.

MISSED APPROACH: Climb to 3500 then climbing right turn to 5000 direct INK VORTAC and hold.

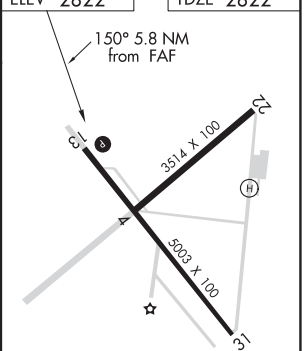
ASOS	FORT WORTH CENTER	UNICOM
118.325	133.1 298.95	123.0 (CTAF) L





CATEGORY	A	B	C	D
S-13	3340-1 518 (600-1)		3340-1½ 518 (600-1½)	NA
CIRCLING	3340-1 518 (600-1)		3340-1½ 518 (600-1½)	NA
DSHRT FIX MINIMUMS				
S-13	3160-1 338 (400-1)			NA
CIRCLING	3280-1 458 (500-1)	3300-1 478 (500-1)	3300-1½ 478 (500-1½)	NA

ELEV 2822 TDZE 2822



MIRL Rwys 4-22 and 13-31 L

FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

WINTERS, TEXAS | AL-6639 (FAA) | 19311

WAAS CH 93822 W17A	APP CRS 172°	Rwy ldg 3204 TDZE 1870 Apt Elev 1871

RNAV (GPS) RWY 17
WINTERS MUNI (77F)

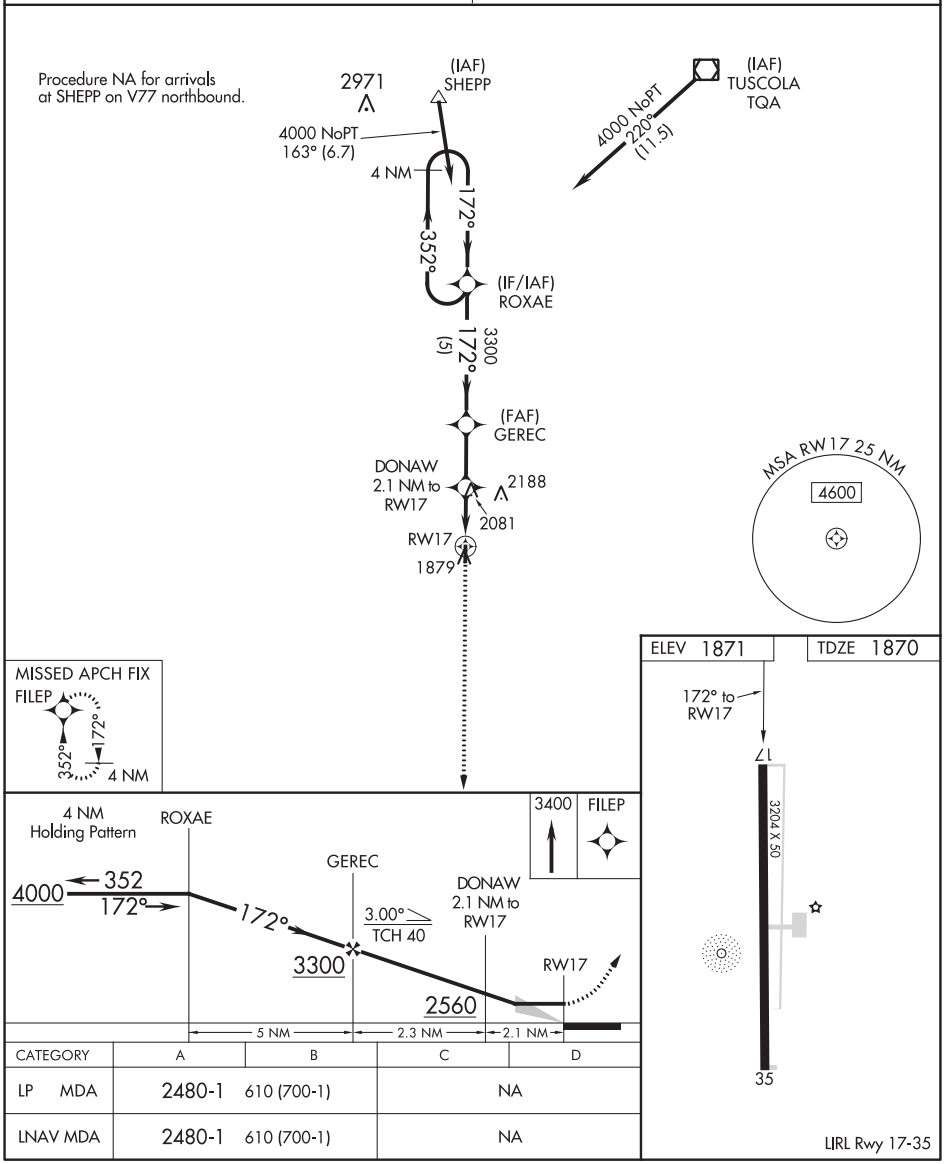
RNP APCH.

NA

Use Abilene altimeter setting. When not received, use Coleman altimeter setting and increase all MDA 20 feet.

MISSED APPROACH: Climb to 3400 direct FILEP and hold.

ABILENE APP CON	CTAF
127.2 282.3	122.9



CATEGORY	A	B	C	D
LP MDA	2480-1	610 (700-1)	NA	
LNAV MDA	2480-1	610 (700-1)	NA	

LIRL Rwy 17-35

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

WAAS CH 49022 W35A	APP CRS 352°	Rwy ldg 3204 TDZE 1871 Apt Elev 1871

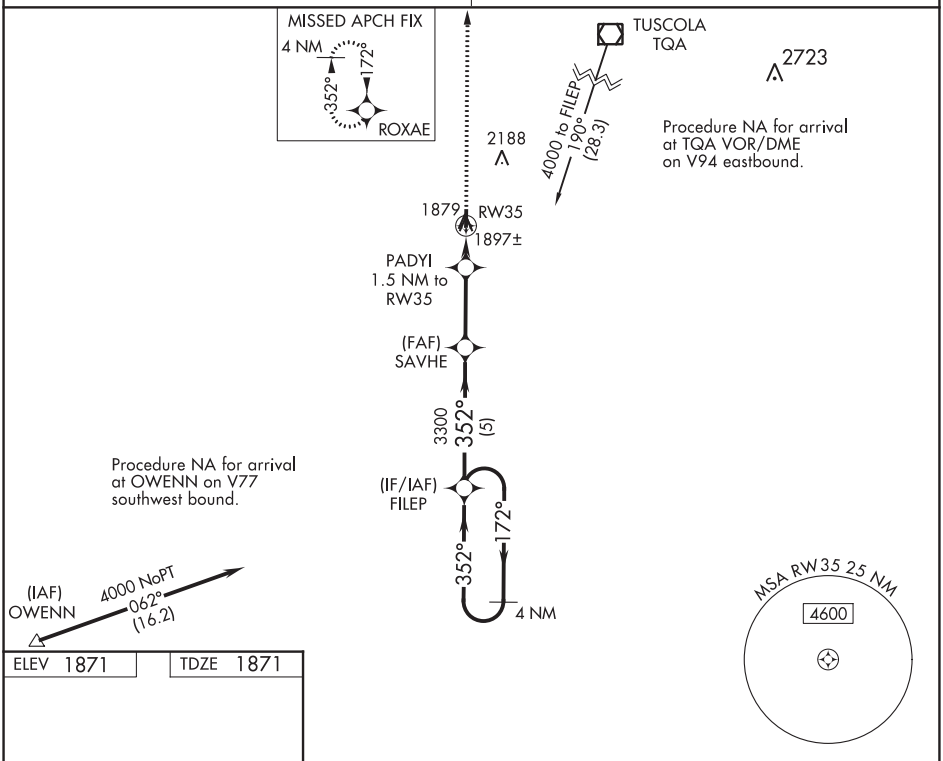
RNAV (GPS) RWY 35
WINTERS MUNI (77F)

NA

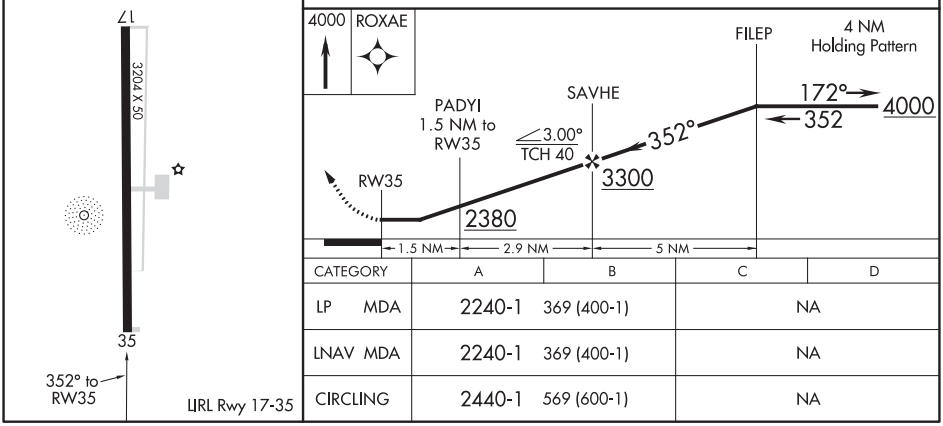
DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM NA. Use Abilene altimeter setting; when not received, use Coleman altimeter setting and increase all MDA 20 feet. Night landing: Rwy 35 NA.

MISSED APPROACH: Climb to 4000 direct ROXAE and hold.

ABILENE APP CON	CTAF
127.2 282.3	122.9



ELEV 1871	TDZE 1871



CATEGORY	A	B	C	D
LP MDA	2240-1	369 (400-1)	NA	
LNAV MDA	2240-1	369 (400-1)	NA	
CIRCLING	2440-1	569 (600-1)	NA	

SC-3, 25 FEB 2021 to 22 APR 2021
SC-3, 25 FEB 2021 to 22 APR 2021

YOAKUM, TEXAS

AL-6157 (FAA)

19283

RNAV (GPS) RWY 31
YOAKUM MUNI (T85)

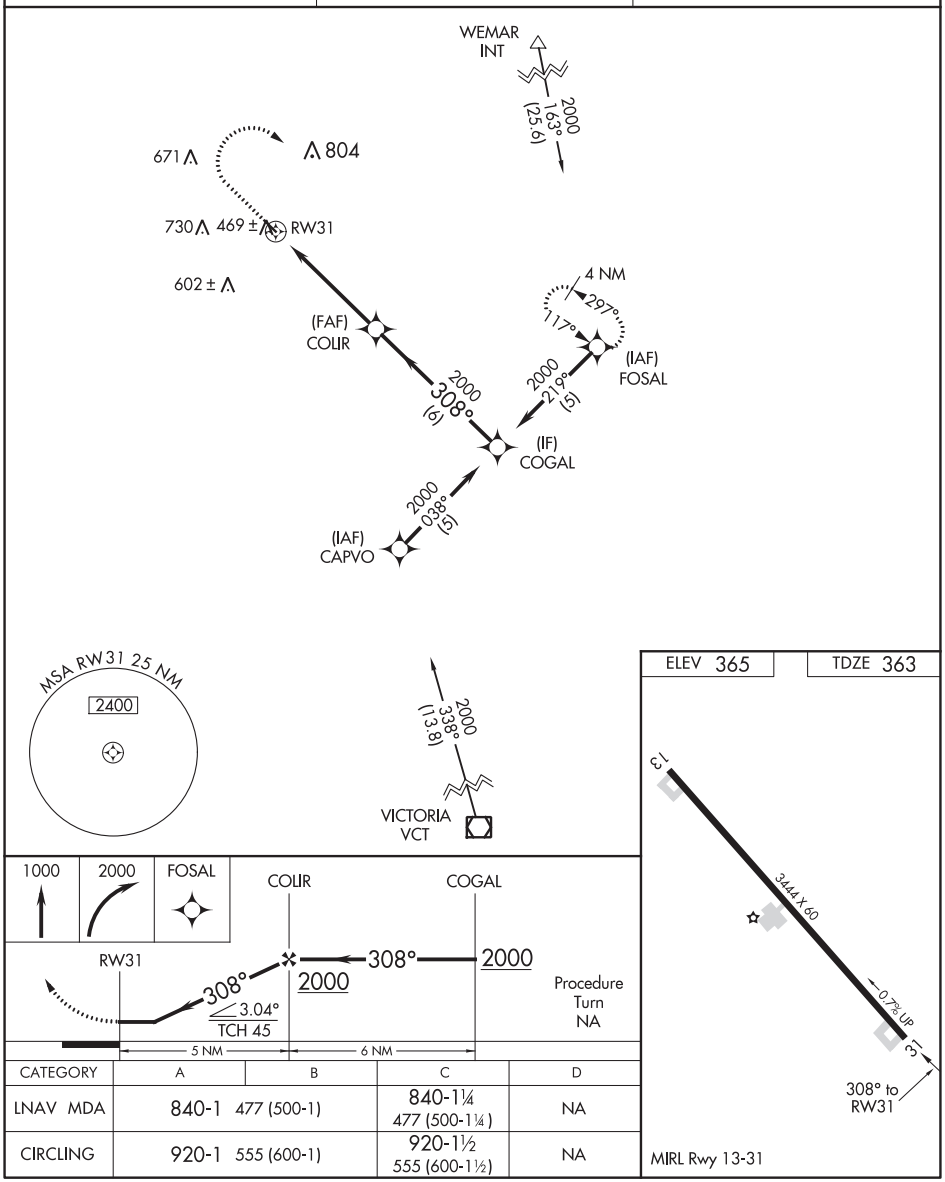
APP CRS	Rwy ldg	3444
308°	TDZE	363
	Apt Elev	365

NA

Use Victoria Regional altimeter setting. Procedure not authorized at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 1000 then climbing right turn to 2000 direct FOSAL and hold.

VCT ASOS	HOUSTON CENTER	CTAF
119.025	132.8 343.7	122.9



CATEGORY	A	B	C	D
LNAV MDA	840-1 477 (500-1)		840-1¼ 477 (500-1¼)	NA
CIRCLING	920-1 555 (600-1)		920-1½ 555 (600-1½)	NA

SC-3, 25 FEB 2021 to 22 APR 2021

SC-3, 25 FEB 2021 to 22 APR 2021

CLIMB/DESCENT TABLE 10042

INSTRUMENT TAKEOFF OR APPROACH PROCEDURE CHARTS
RATE OF CLIMB/DESCENT TABLE

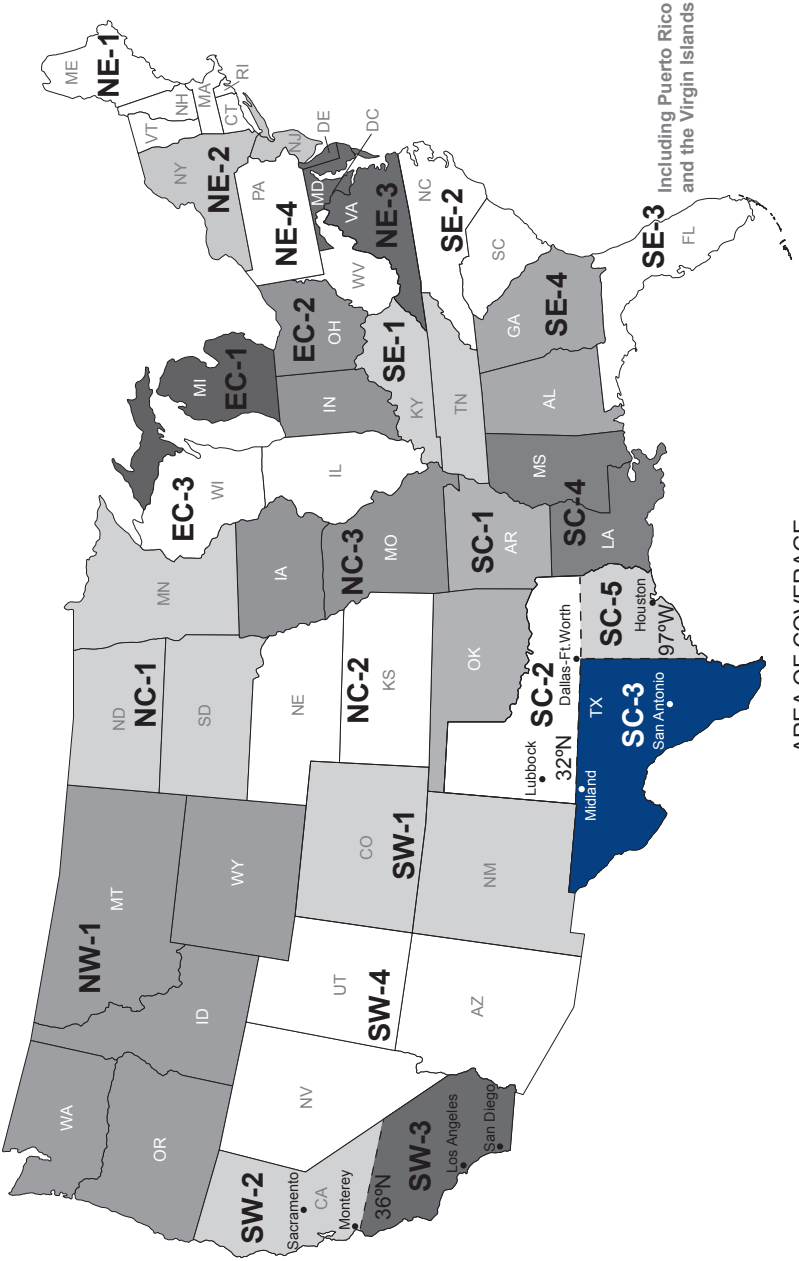
(ft. per min)

A rate of climb/descent table is provided for use in planning and executing climbs or descents under known or approximate ground speed conditions. It will be especially useful for approaches when the localizer only is used for course guidance. A best speed, power, altitude combination can be programmed which will result in a stable glide rate and altitude favorable for executing a landing if minimums exist upon breakout. Care should always be exercised so that minimum descent altitude and missed approach point are not exceeded.

CLIMB/ DESCENT ANGLE (degrees and tenths)	ft/NM	GROUND SPEED (knots)										
		60	90	120	150	180	210	240	270	300	330	360
2.0	210	210	320	425	530	635	743	850	955	1060	1165	1275
2.5	265	265	400	530	665	795	930	1060	1195	1325	1460	1590
VERTICAL PATH ANGLE 2.7	287	287	430	574	717	860	1003	1147	1290	1433	1576	1720
2.8	297	297	446	595	743	892	1041	1189	1338	1486	1635	1783
2.9	308	308	462	616	770	924	1078	1232	1386	1539	1693	1847
3.0	318	318	478	637	797	956	1115	1274	1433	1593	1752	1911
3.1	329	329	494	659	823	988	1152	1317	1481	1646	1810	1975
3.2	340	340	510	680	850	1020	1189	1359	1529	1699	1869	2039
3.3	350	350	526	701	876	1052	1227	1402	1577	1752	1927	2103
3.4	361	361	542	722	903	1083	1264	1444	1625	1805	1986	2166
3.5	370	370	555	745	930	1115	1300	1485	1670	1860	2045	2230
4.0	425	425	640	850	1065	1275	1490	1700	1915	2125	2340	2550
4.5	480	480	715	955	1195	1435	1675	1915	2150	2390	2630	2870
5.0	530	530	795	1065	1330	1595	1860	2125	2390	2660	2925	3190
5.5	585	585	880	1170	1465	1755	2050	2340	2635	2925	3220	3510
6.0	640	640	960	1275	1595	1915	2235	2555	2875	3195	3510	3830
6.5	690	690	1040	1385	1730	2075	2425	2770	3115	3460	3805	4155
7.0	745	745	1120	1490	1865	2240	2610	2985	3355	3730	4105	4475
7.5	800	800	1200	1600	2000	2400	2800	3200	3600	4000	4400	4800
8.0	855	855	1280	1710	2135	2560	2990	3415	3845	4270	4695	5125
8.5	910	910	1360	1815	2270	2725	3180	3630	4085	4540	4995	5450
9.0	960	960	1445	1925	2405	2885	3370	3850	4330	4810	5295	5775
9.5	1015	1015	1525	2035	2540	3050	3560	4065	4575	5085	5590	6100
10.0	1070	1070	1605	2145	2680	3215	3750	4285	4820	5355	5890	6430

CLIMB/DESCENT TABLE 10042

U.S. TERMINAL PUBLICATION VOLUMES



FAA Product ID: BTPPSC3

NSN 7641015059587

NGA REF. NO. OK-10-2859 TERMXFAABTPPSC3

EFF. DATE 21056